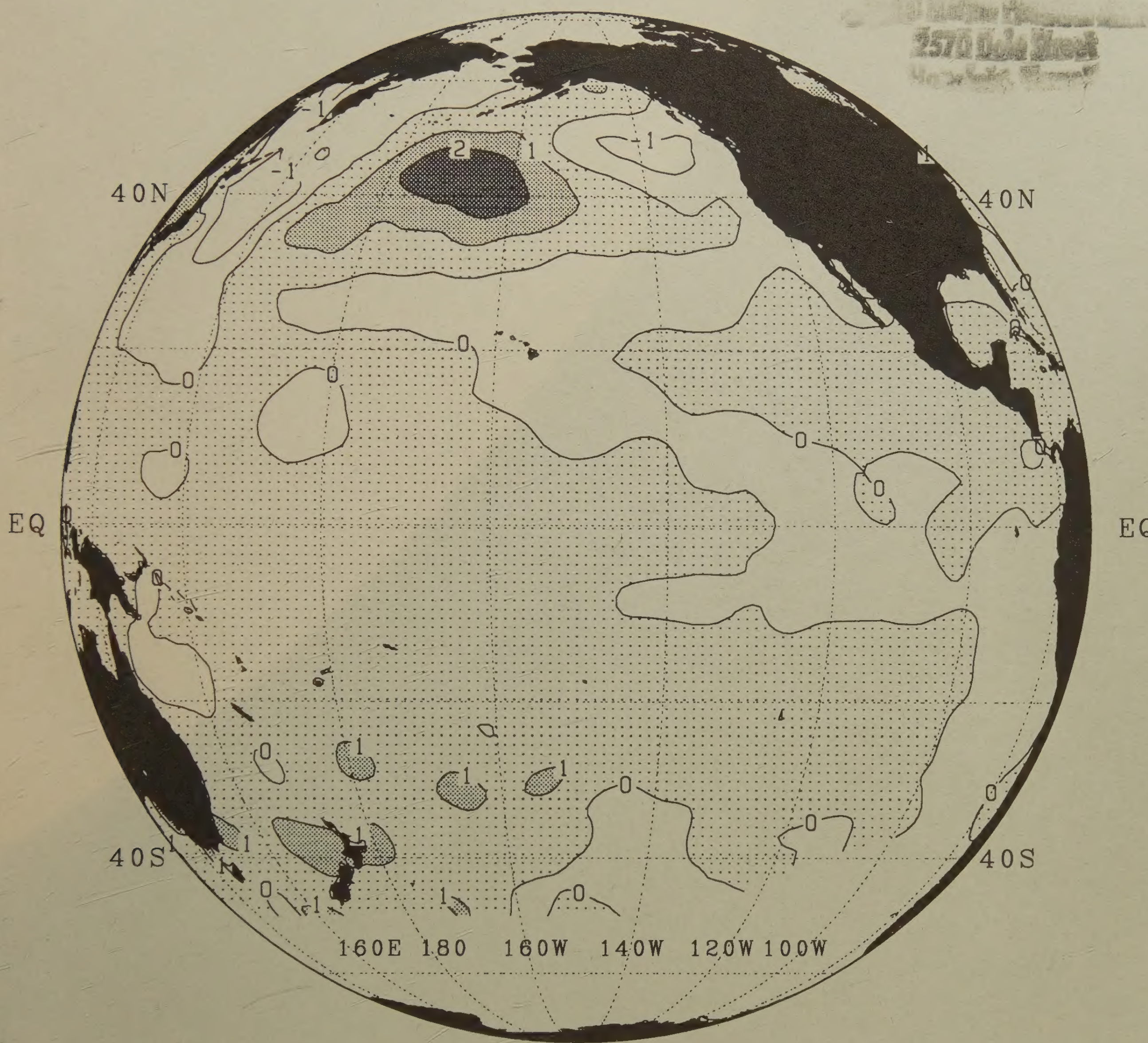
気象庁海洋月報

Monthly Ocean Report
August 2001 (No. 104)



Climate and Marine Department

Japan Meteorological Agency

気象庁 気候・海洋気象部

平成13年8月

気象庁海洋月報は、気象庁 気候・海洋気象部 海洋気象情報室で作成しています。

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Monthly Ocean Report is prepared by the Office of Marine Prediction, Climate and Marine Department, Japan Meteorological Agency.

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表紙は、2001 年 8 月の太平洋の月平均海面水温偏差図です。
陰影部は、平年より高温の海域を示しています。

The figure on the front cover shows the monthly mean SST anomalies for August 2001 in the Pacific Ocean.
Areas of positive anomalies are shaded.

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海況の特徴（２００１年８月）

日本近海の海況

海面水温は、日本海中部から東シナ海北部にかけて平年より 1℃以上高かった。一方、常磐沖を除く日本の東側では負偏差域が広がっており、30°N から 45°N にかけては−1℃を超える負偏差となっていた。オホーツク海北部は平年より 1℃以上低かった（第４図）。

黒潮は、月を通して紀伊半島沖から東海沖を 33°N に沿って東に流れていた。その後、上・中旬は八丈島付近で北東に向きを変え、下旬は 139°E 付近を北東に流れ、三宅島付近を通り、房総半島沖を蛇行しながら北東に流れていた（第９図）。

太平洋の海況

太平洋赤道域の海面水温は、ニューギニアの北と 160°E から 160°W にかけて、及び 105°W 付近で平年より 0.5℃以上高かった。120°W 付近と 90°W 付近では平年より 0.5℃以上低かった。

北太平洋の海面水温は、30°N から 50°N の 165°E から 150°W にかけてとアラスカ湾で平年より 1℃以上高く、45°N、165°W 付近には+2℃を超える正偏差域が広がっていた。45°N に沿った 150°W から 130°W では、平年より 1℃以上低かった（第１７図）。

Highlights August 2001

Seas adjacent to Japan

SSTs were more than 1℃ above normal from the central part of the Japan Sea to the northern part of the East China Sea. Negative SST anomalies prevailed east of Japan except for the sea off Joban, and those exceeding −1℃ were found between 30°N and 45°N. SSTs were more than 1℃ below normal in the northern part of the Sea of Okhotsk (Fig. 4).

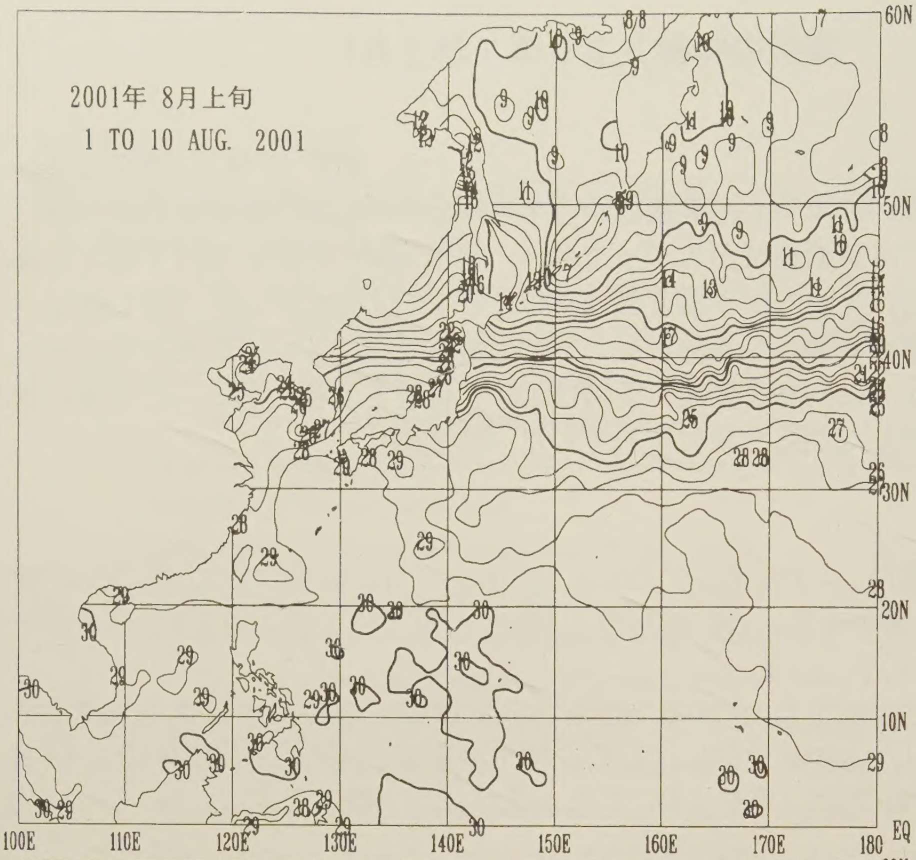
The Kuroshio flowed eastward along 33°N in seas off the Kii Peninsula and Tokai through the month. It turned NE-ward near Hachijo Island in the first and second 10-days of the month. In the rest of the month, it flowed NE-ward near 139°E and passed by Miyake Island, then flowed NE-ward off the Boso Peninsula with meandering (Fig. 9).

Pacific Ocean

In the equatorial Pacific, SSTs were more than 0.5℃ above normal north of New Guinea, from 160°E to 160°W, and around 105°W. SSTs were more than 0.5℃ below normal around 120°W and 90°W.

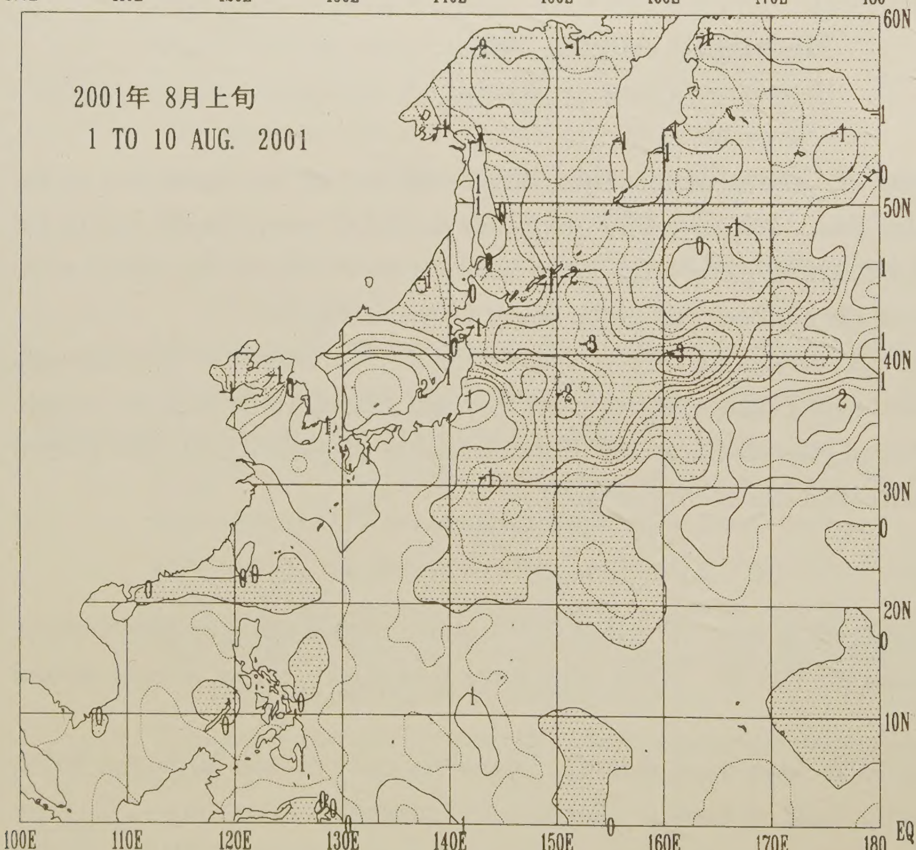
In the North Pacific, SSTs were more than 1℃ above normal between 30°N and 50°N, from 165°E to 150°W and in the Gulf of Alaska. Positive SST anomalies exceeding +2℃ were found around 45°N, 165°W. SSTs were more than 1℃ below normal from 150°W to 130°W along 45°N (Fig. 17).

Ten-day mean SST & Anomalies



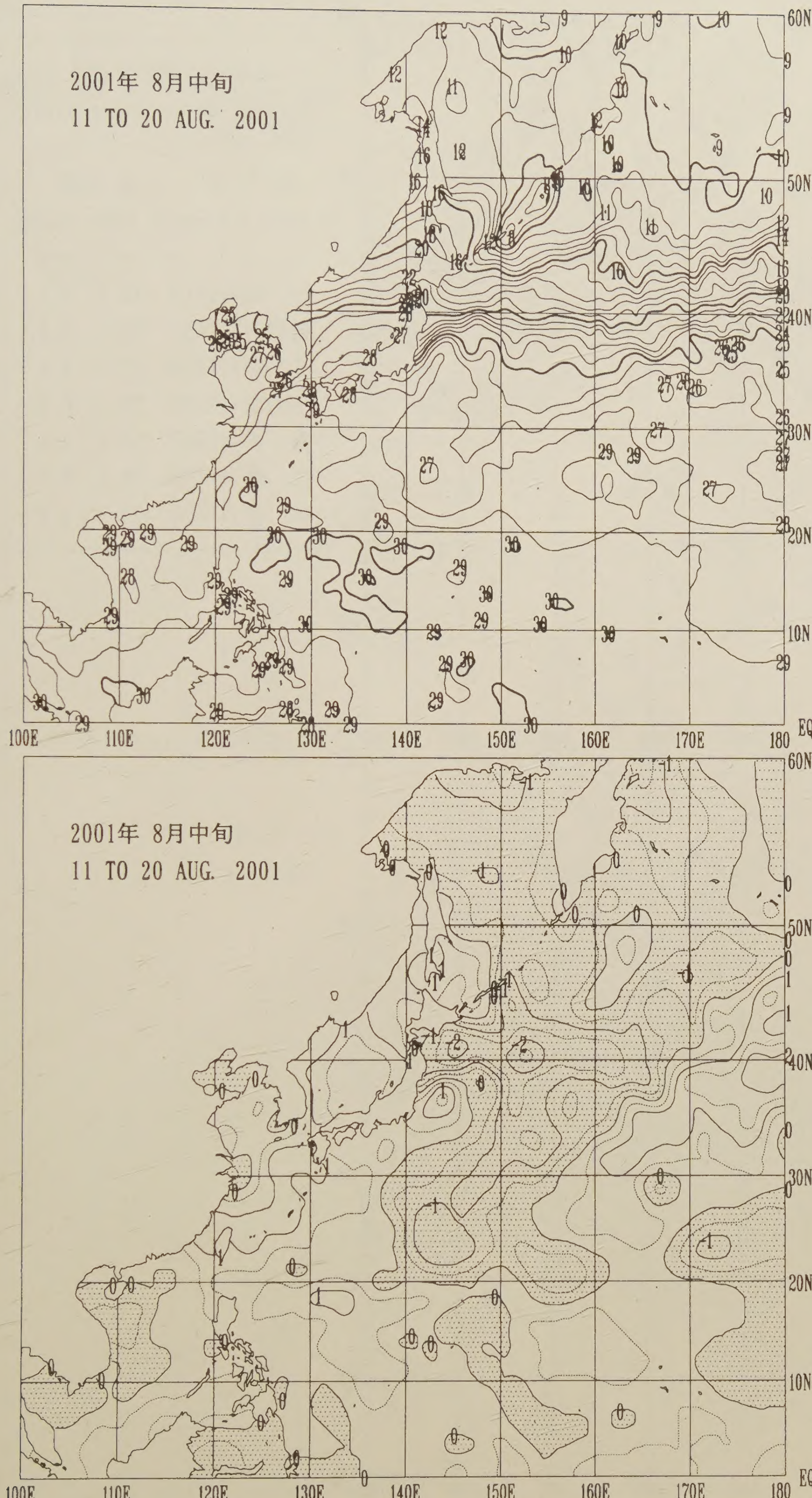
旬平均沿岸水温(℃)
Coastal Water Temperature

地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣(47918)	29.6	0.6
御前崎(47655)	26.0	0.5
八丈島(47678)	24.8	-1.6
小名浜(47598)	22.0	1.6
宮古(47585)	18.2	-0.6
江差(47428)	20.9	-1.1
浜田(47755)	28.4	2.2



第1図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(2001年 8月上旬)

Fig. 1 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 1st ten-day period in AUG 2001. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are spotted.

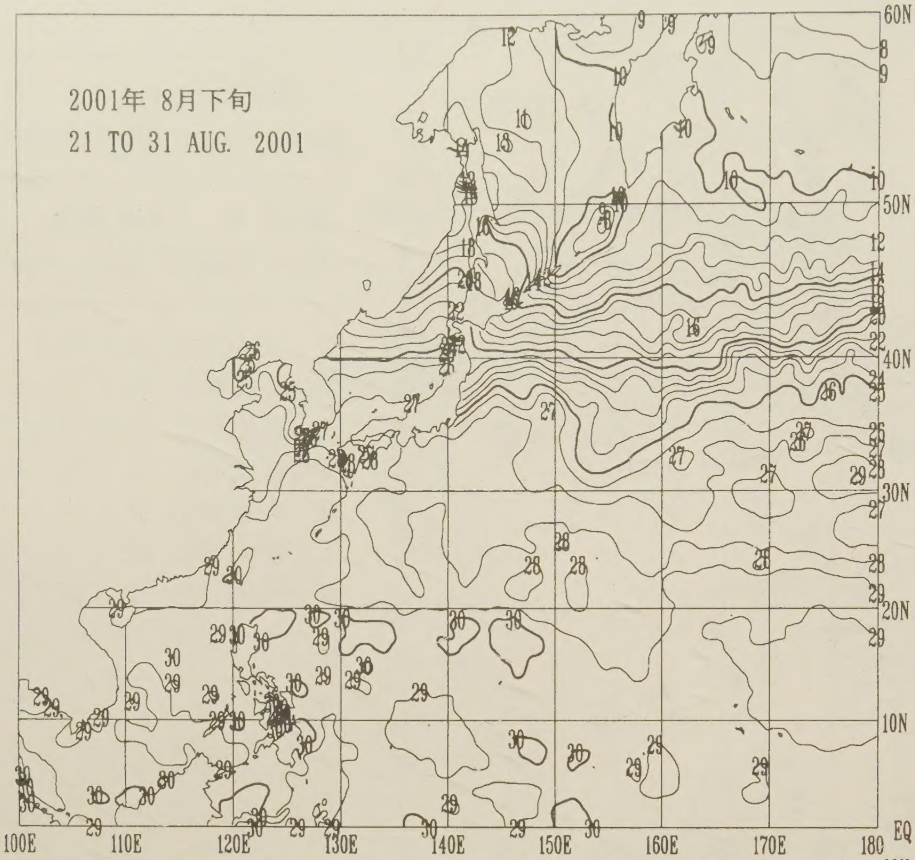


旬平均沿岸水温(℃)
Coastal Water Temperature

地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣(47918)	29.9	0.9
御前崎(47655)	27.1	1.0
八丈島(47678)	26.3	-0.6
小名浜(47598)	21.3	-0.1
宮古(47585)	18.6	-1.1
江差(47428)	24.1	1.1
浜田(47755)	27.3	0.7

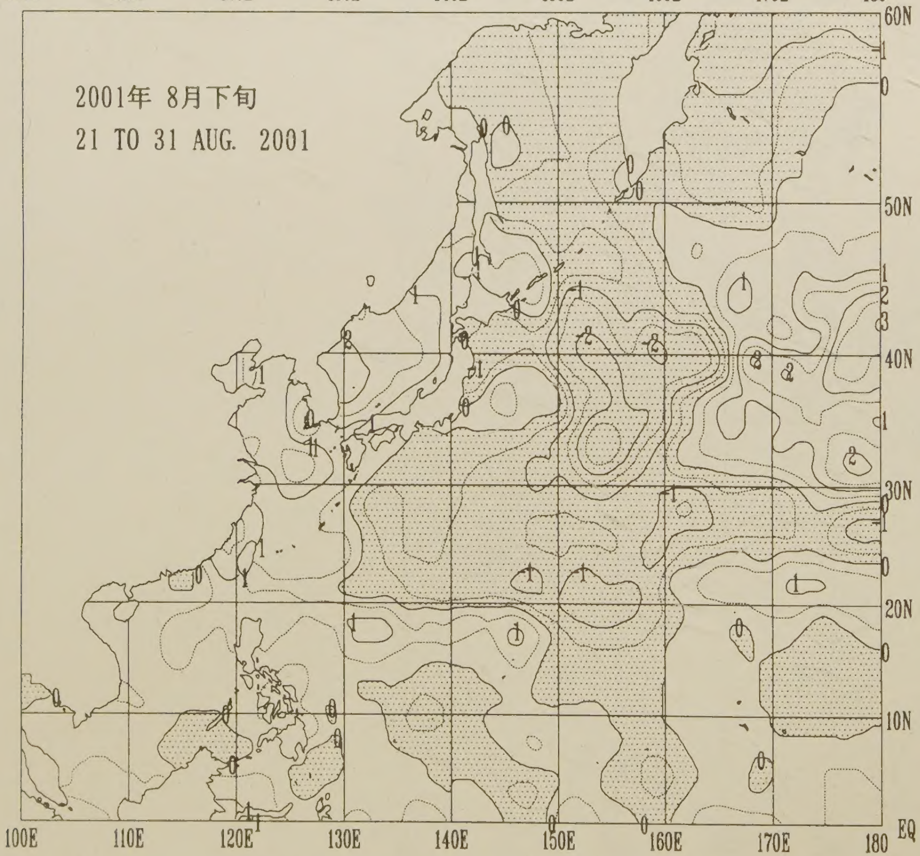
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Fig. 2 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 2nd ten-day period in AUG 2001. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are spotted.



旬平均沿岸水温(℃)
Coastal Water Temperature

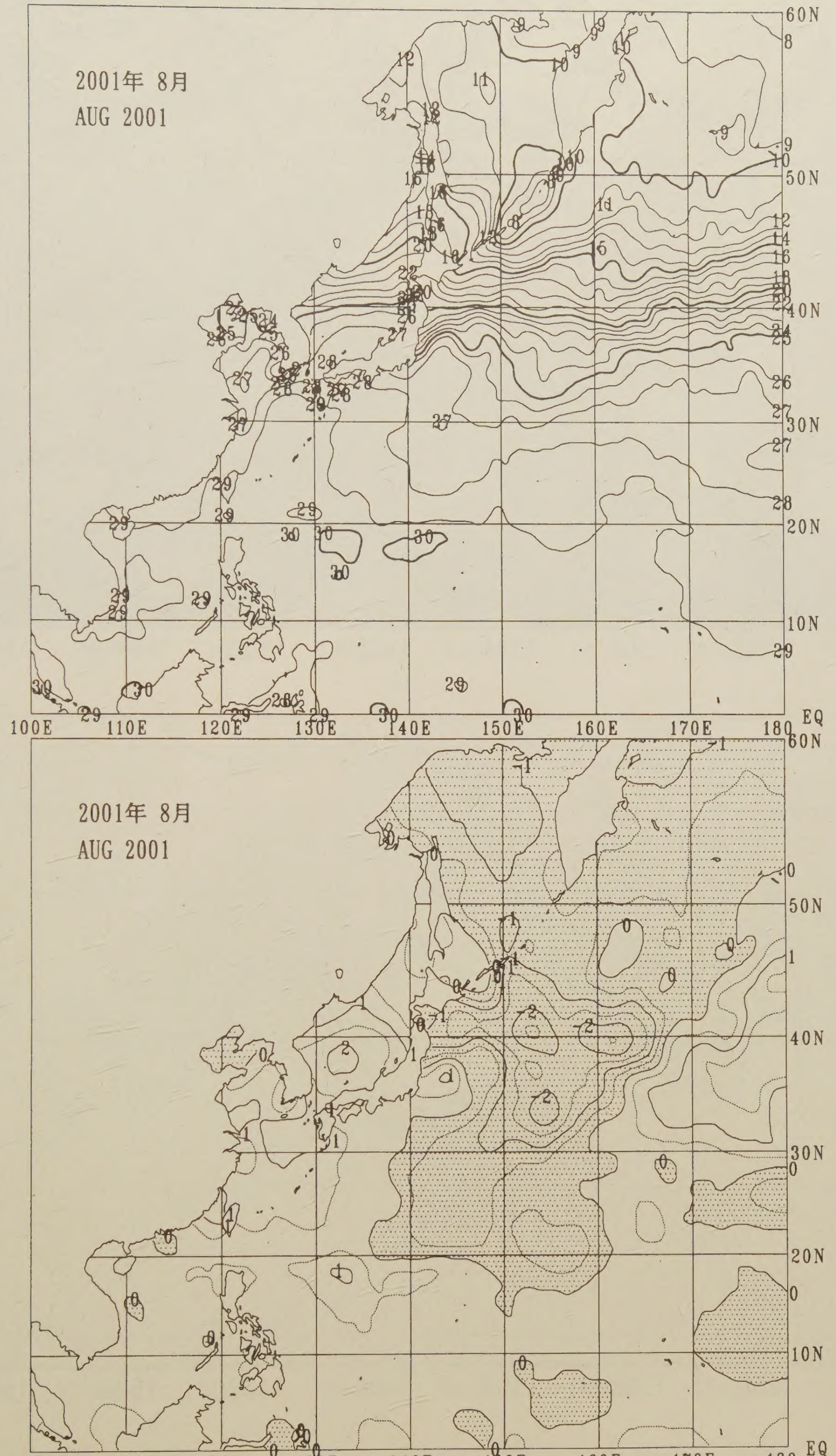
地点名 (Index Number)	水温 Temp.	偏差 Anom.
石　垣(47918)	30.0	1.2
御前崎(47655)	26.2	0.3
八丈島(47678)	27.5	0.5
小名浜(47598)	22.1	0.0
宮　古(47585)	19.2	-1.0
江　差(47428)	24.2	0.7
浜　田(47755)	25.6	-1.2



第3図 北西太平洋旬平均海面水温図(上)及び偏差図(下) (2001年 8月下旬)

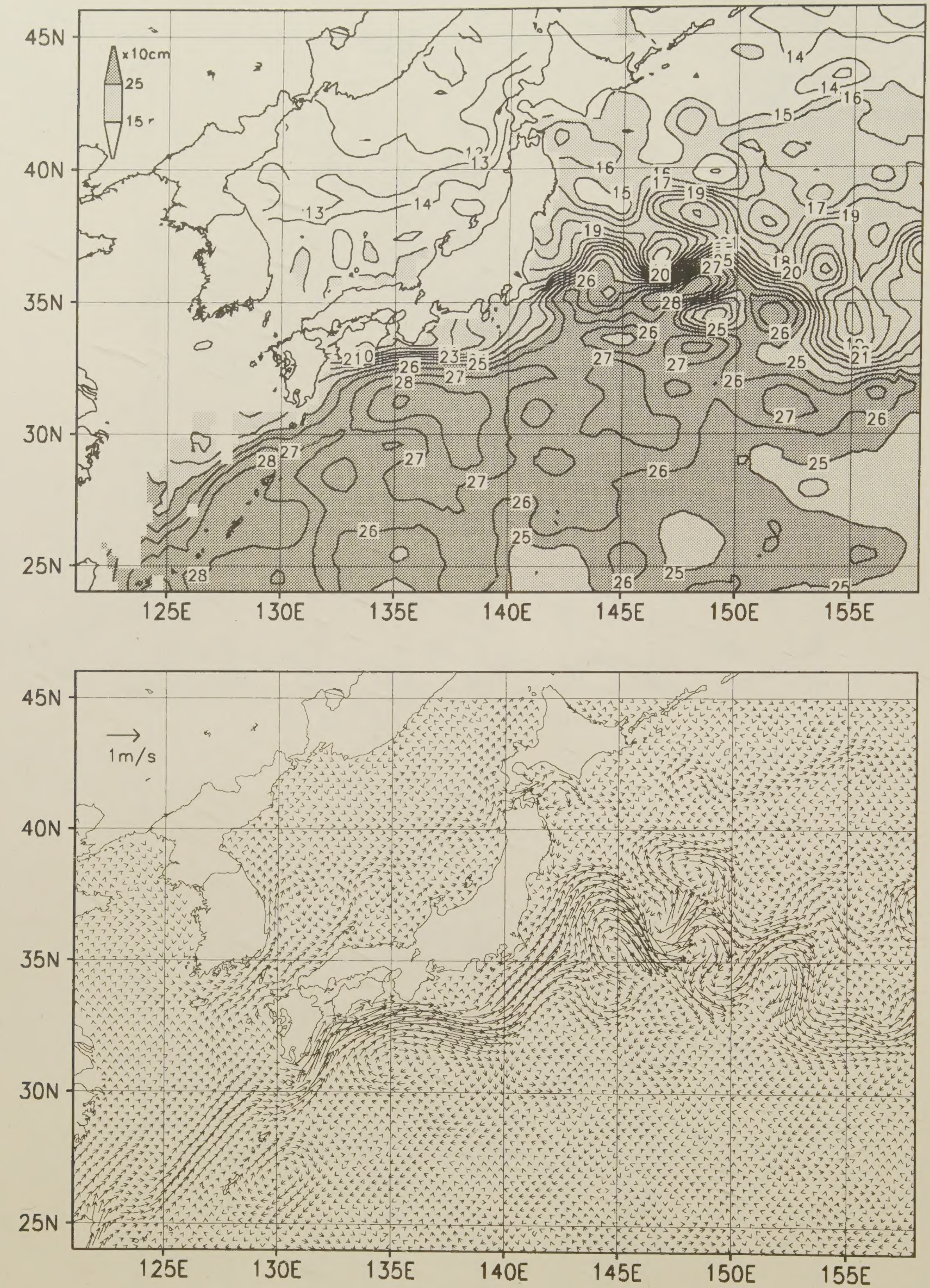
Fig.3 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 3rd ten-day period in AUG 2001. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are spotted.

Monthly Mean SST & Anomalies



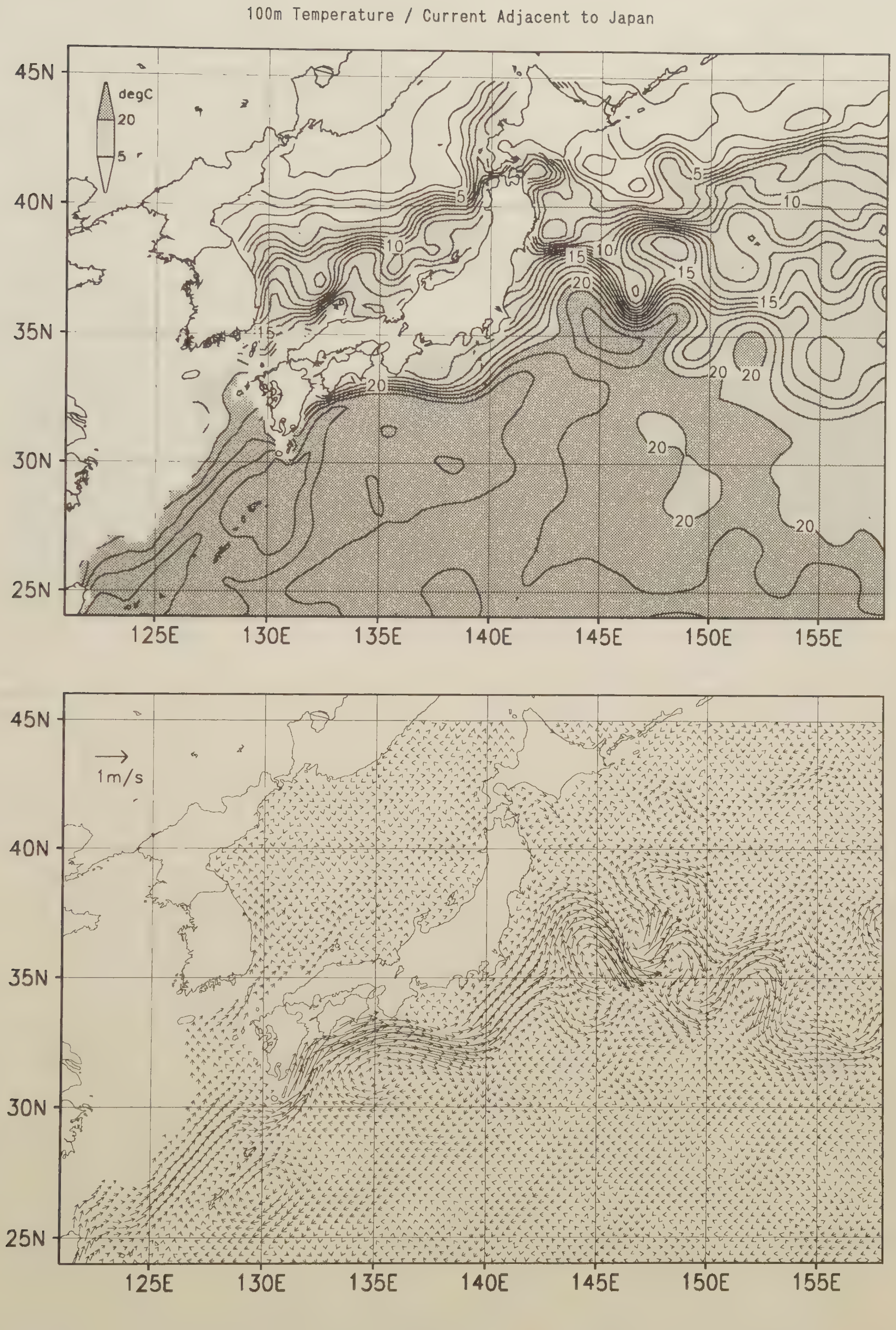
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Fig. 4 Monthly mean SST (top) and anomalies (bottom) in the western North Pacific for AUG 2001. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are spotted.



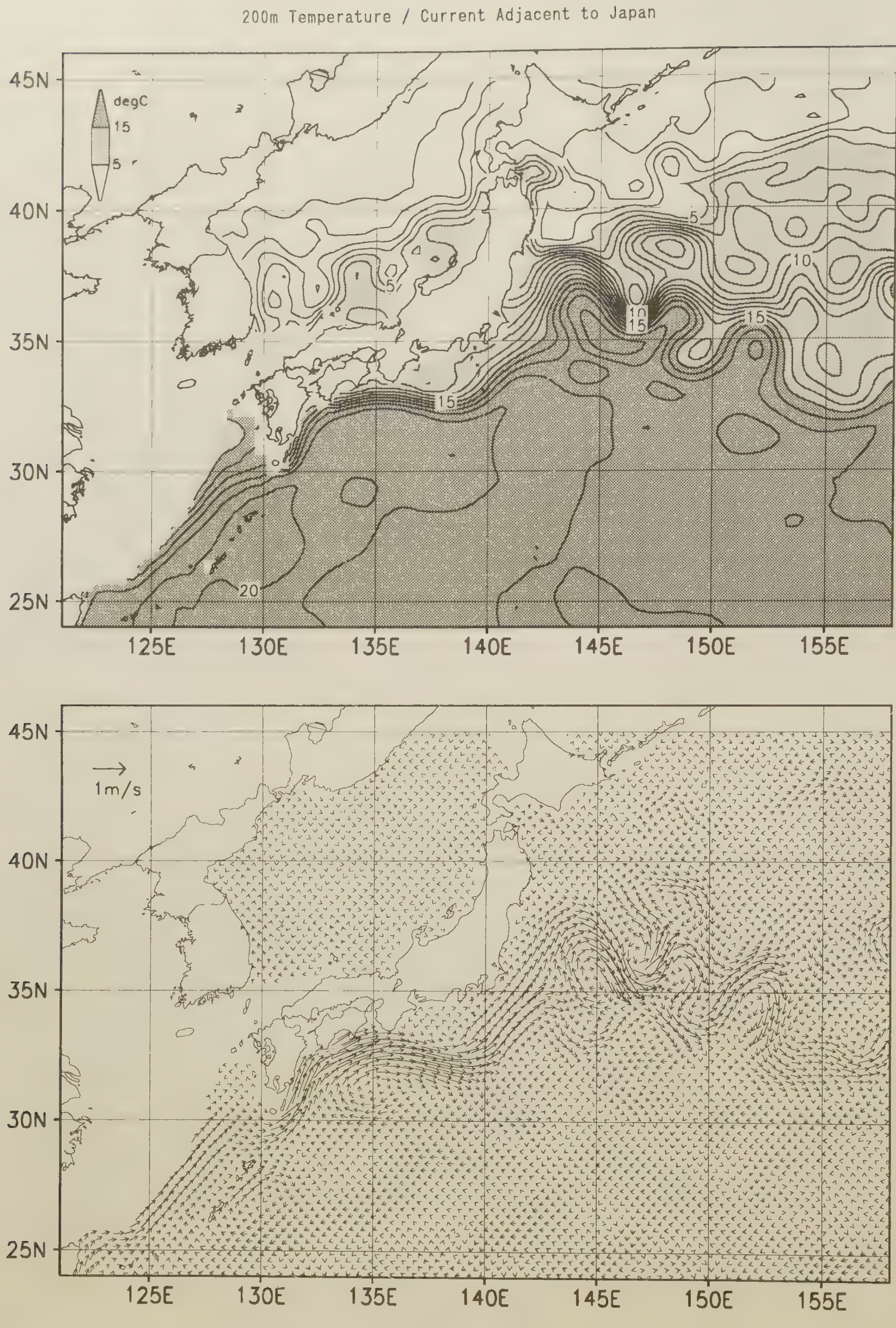
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（海洋総合解析システムによる）

Fig. 5　Monthly mean sea surface height (top) and current (bottom) in seas adjacent to Japan for August 2001. Contour interval is 10cm (top). (calculated by the Ocean Comprehensive Analysis System)



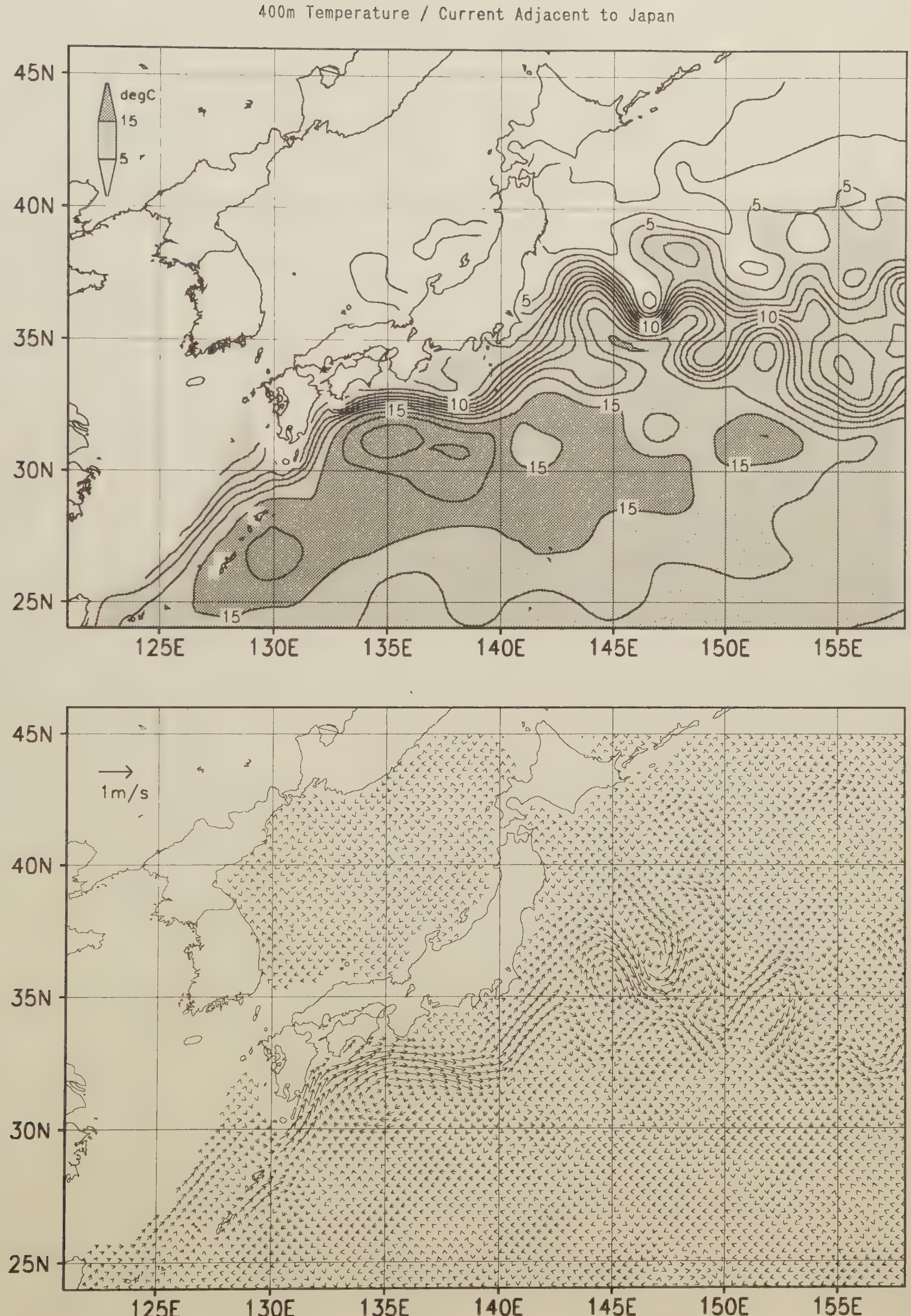
第6図　日本近海月平均表層水温図（上）と表層海流図（下）（深さ 100 m）（2001 年 8 月）
（海洋総合解析システムによる）

Fig. 6　Monthly mean subsurface (100 m) temperature (top) and current (bottom) in seas adjacent to Japan for August 2001. Contour interval is 1 ℃ (top). (calculated by the Ocean Comprehensive Analysis System)



第7図　日本近海月平均表層水温図（上）と表層海流図（下）（深さ 200 m）（2001 年 8 月）
（海洋総合解析システムによる）

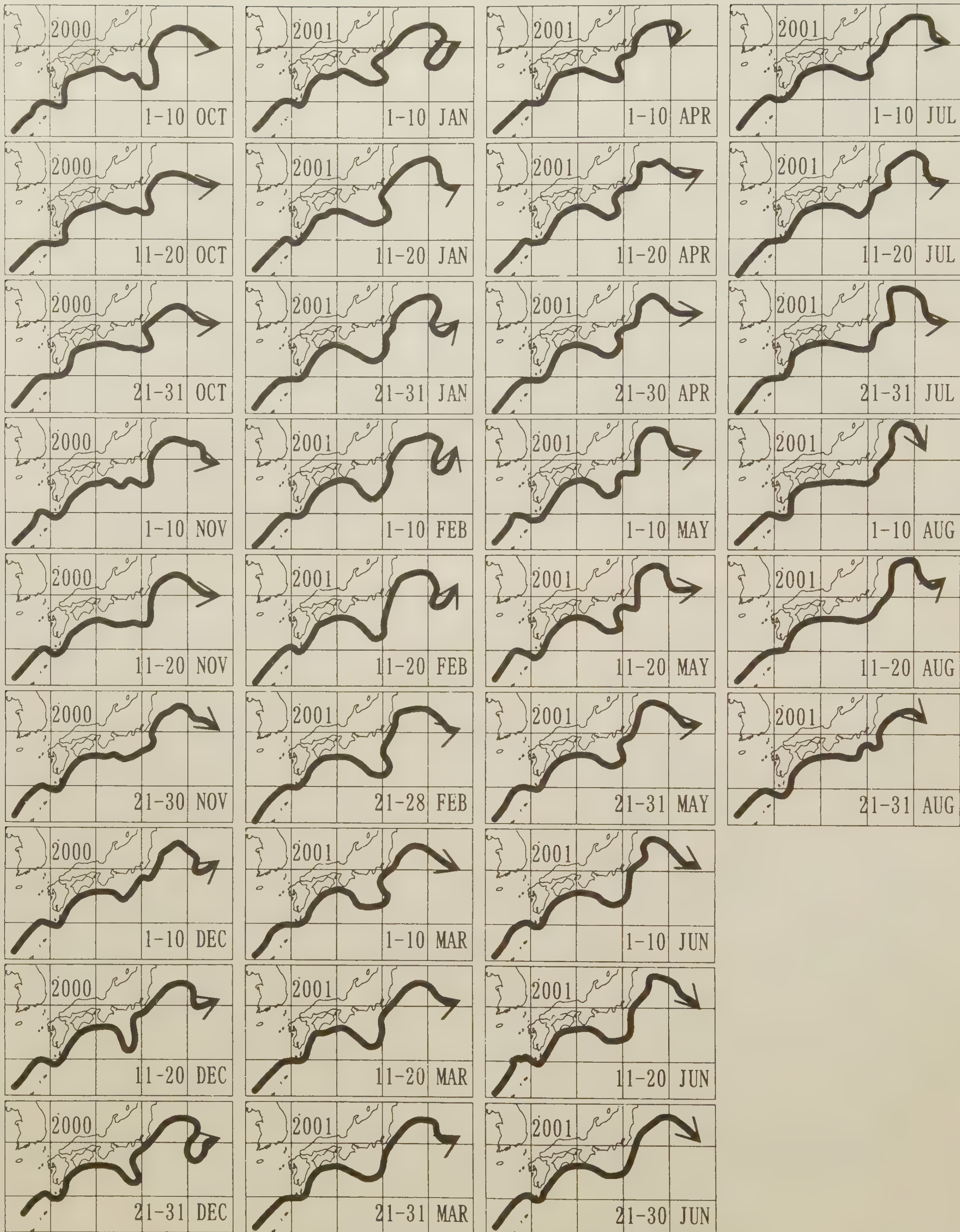
Fig. 7　Monthly mean subsurface (200 m) temperature (top) and current (bottom) in seas adjacent to Japan for August 2001. Contour interval is 1 ˚C (top). (calculated by the Ocean Comprehensive Analysis System)



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（海洋総合解析システムによる）

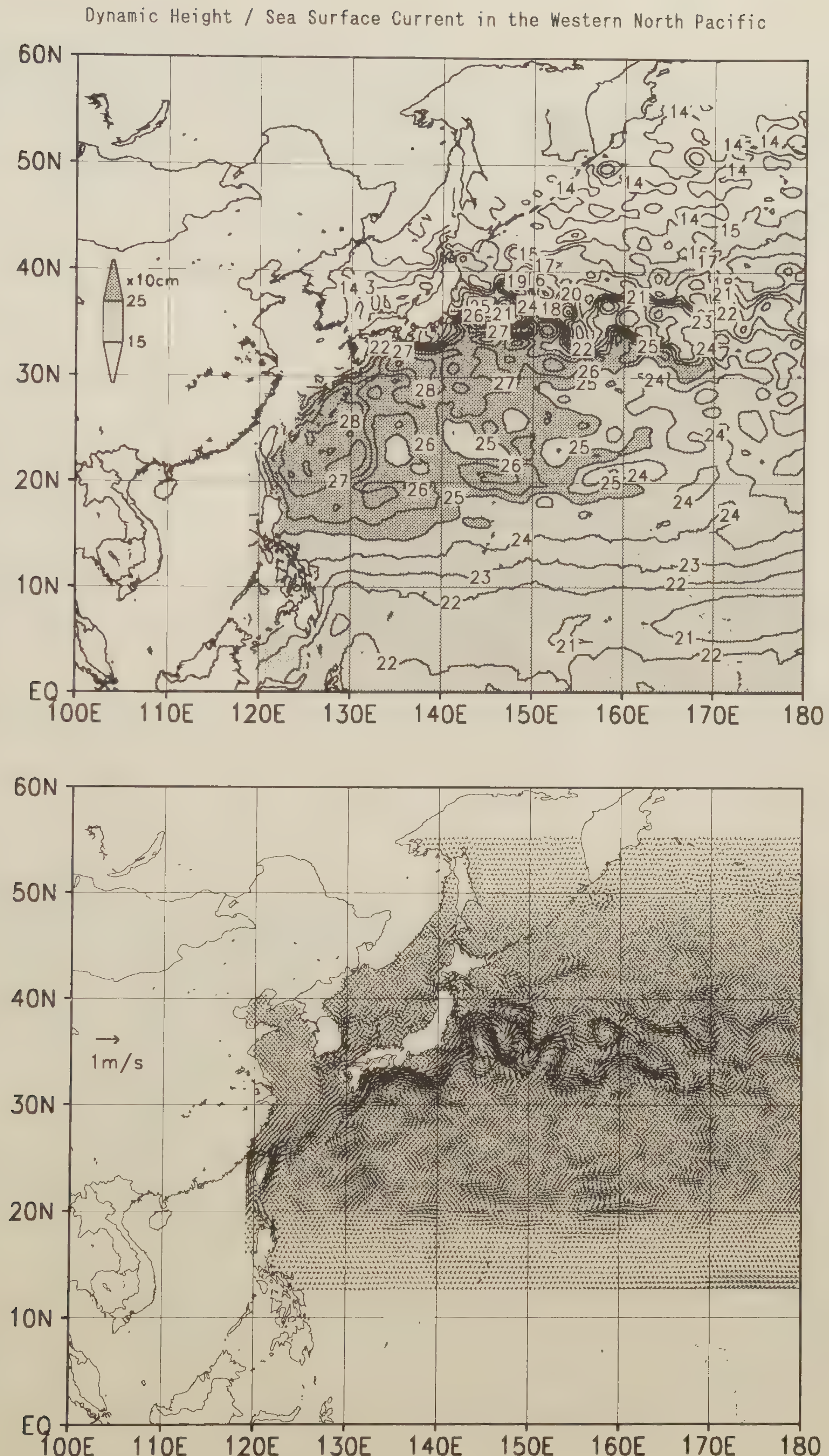
Fig. 8　Monthly mean subsurface (400 m) temperature (top) and current (bottom) in seas adjacent to Japan for August 2001. Contour interval is 1 ℃ (top). (calculated by the Ocean Comprehensive Analysis System)

Location of the Kuroshio axis



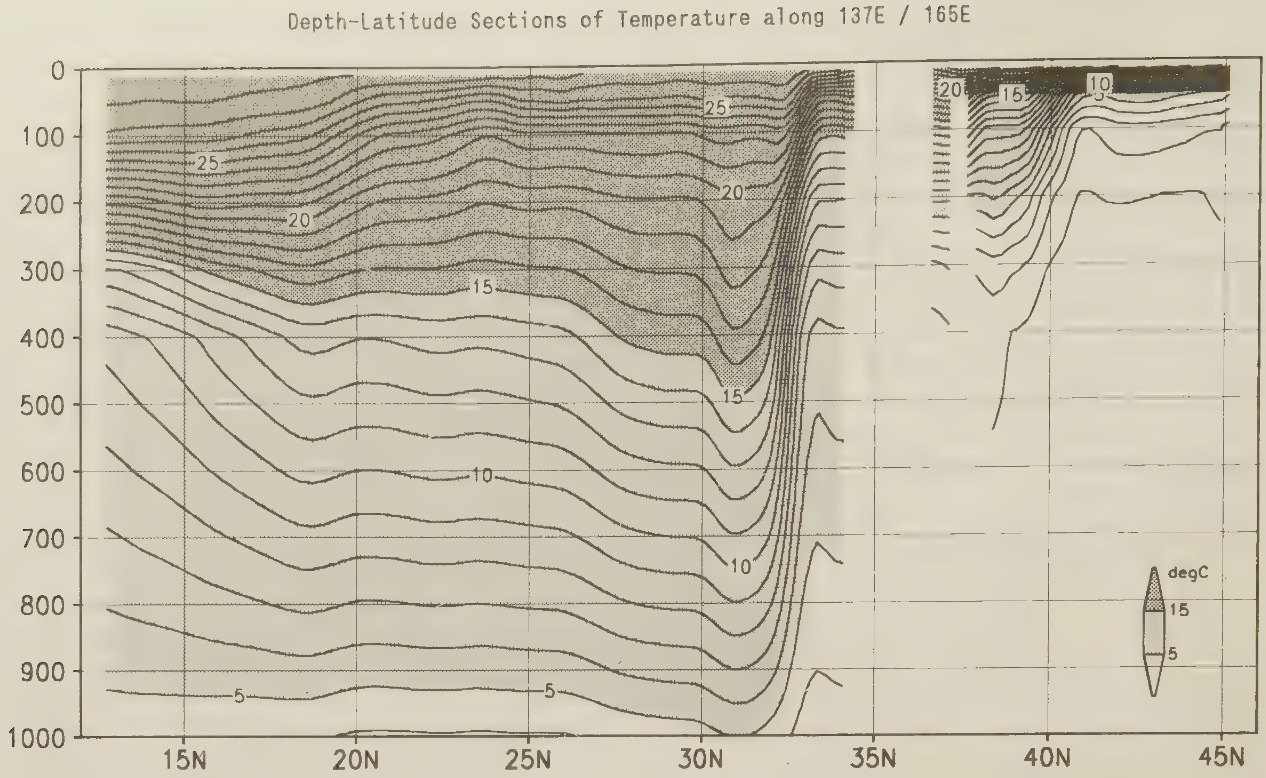
第9図 旬別黒潮流軸図

Fig. 9 Location of the Kuroshio axis



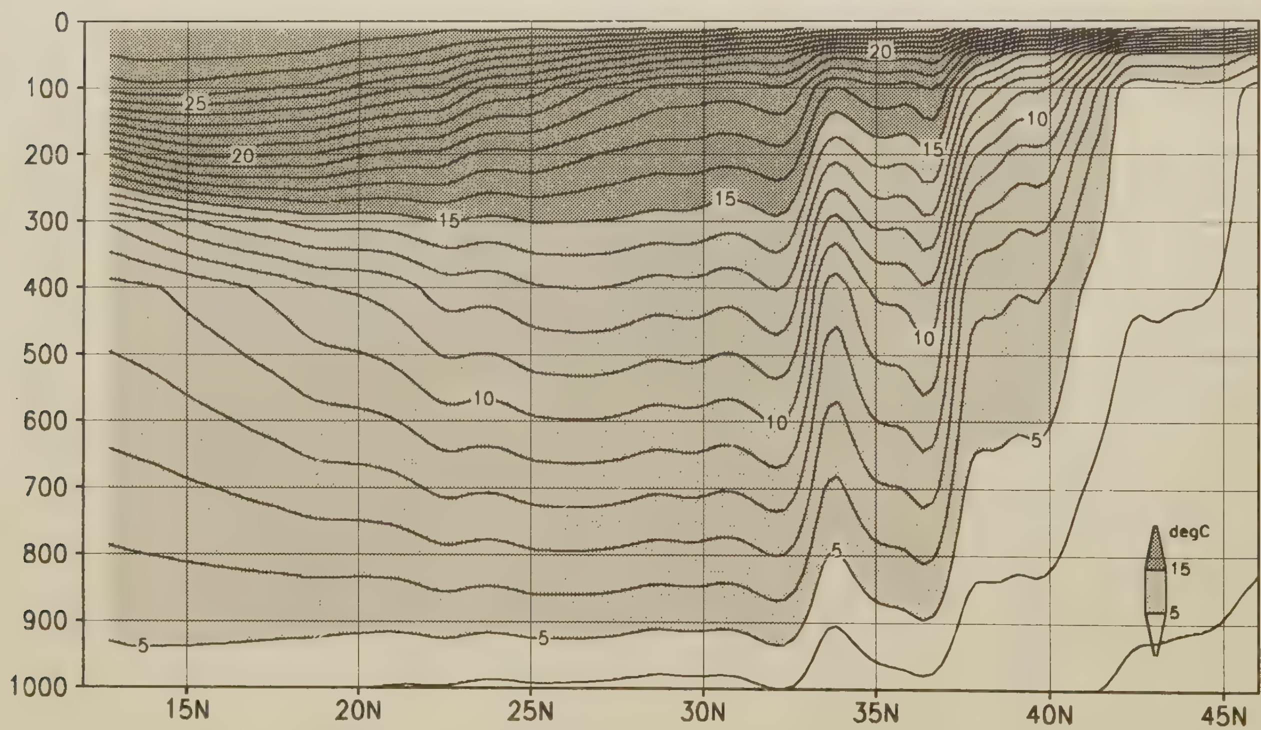
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（海洋総合解析システムによる）

Fig. 10　Monthly mean sea surface height (top) and current (bottom) in the western North Pacific for August 2001. Contour interval is 10cm (top). (calculated by the Ocean Comprehensive Analysis System)



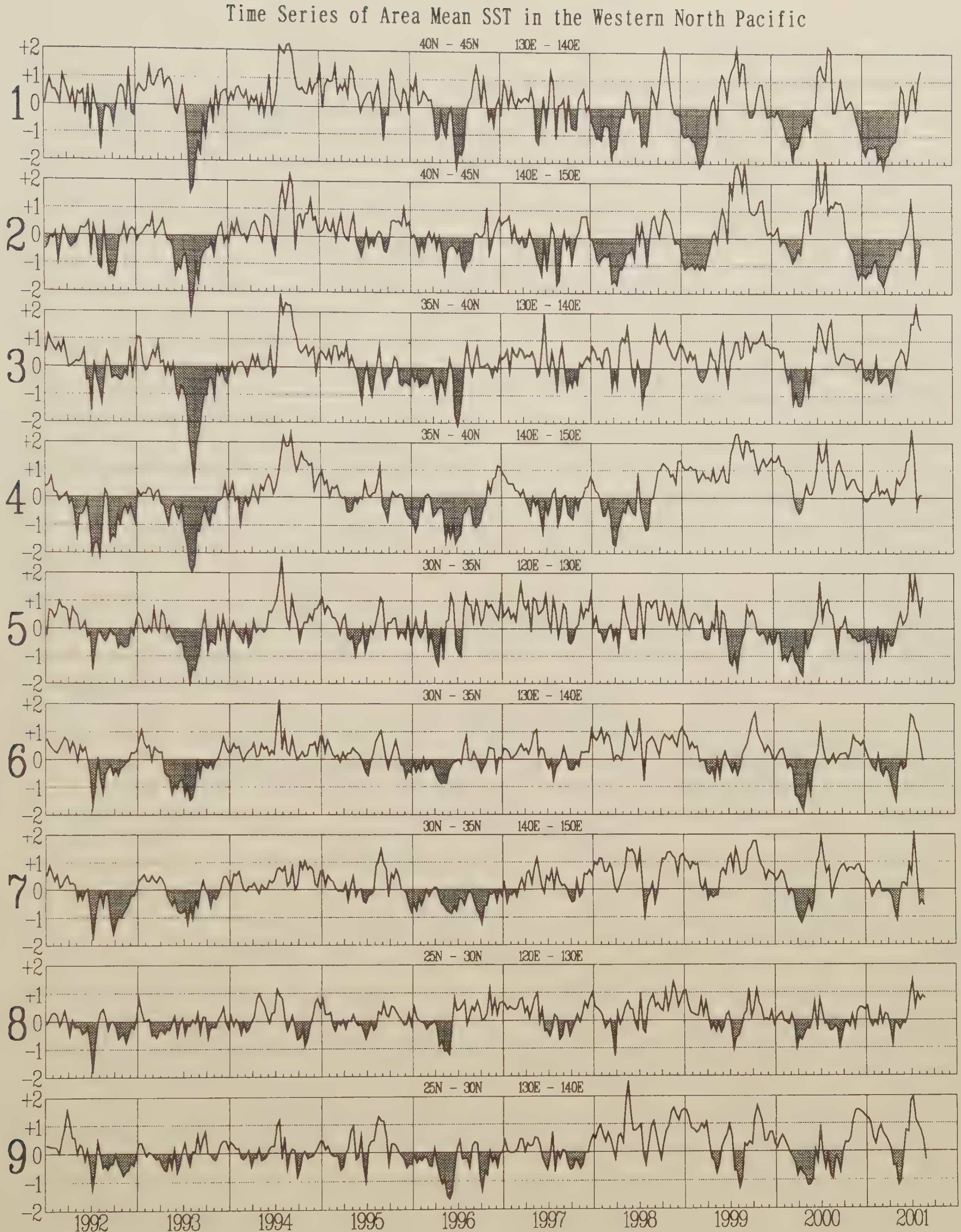
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（海洋総合解析システムによる）

Fig. 11　Vertical cross section of monthly mean temperature along 137 °E for August 2001. Contour interval is 1 °C. (calculated by the Ocean Comprehensive Analysis System)



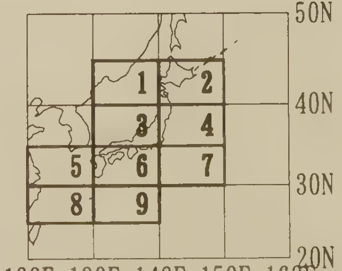
第 12 図　東経 165° 線に沿う月平均表層水温の鉛直断面図 （2001 年 8 月）
（海洋総合解析システムによる）

Fig. 12　Vertical cross section of monthly mean temperature along 165 °E for August 2001. Contour interval is 1 °C. (calculated by the Ocean Comprehensive Analysis System)

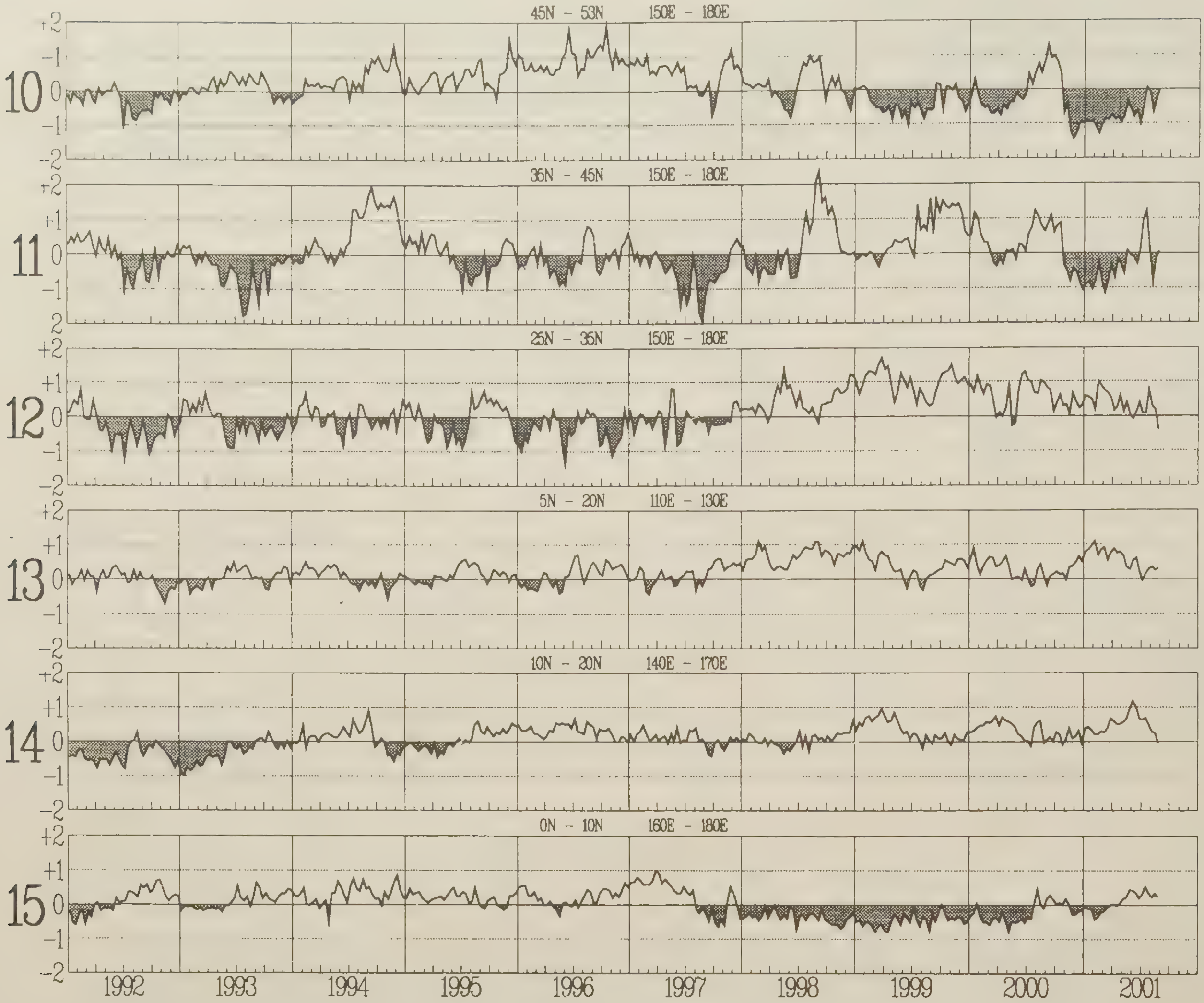


第13図　海域別旬平均海面水温平年偏差時系列図

Fig. 13 Time series of the ten-day mean SST anomalies (°C) in the western North Pacific for the areas shown in the right panel. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1971-2000).

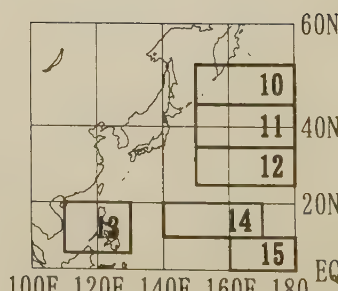


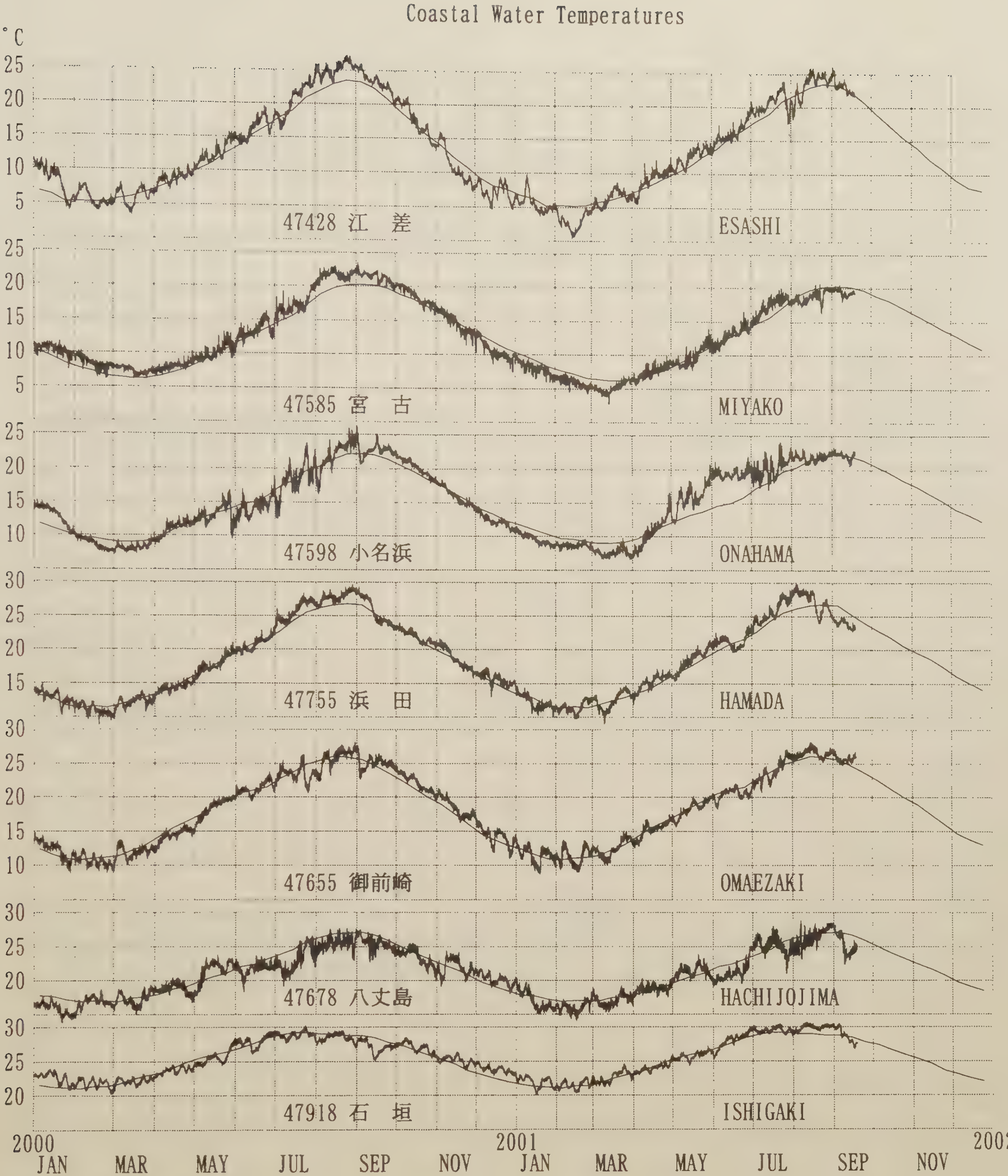
Time Series of Area Mean SST in the Western North Pacific

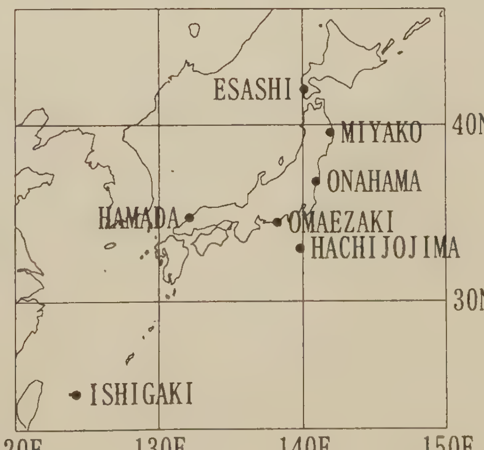


第13図　海域別旬平均海面水温平年偏差時系列図（つづき）

Fig. 13 (continue) Time series of the ten-day mean SST anomalies (°C) in the western North Pacific for the areas shown in the right panel. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1971-2000).

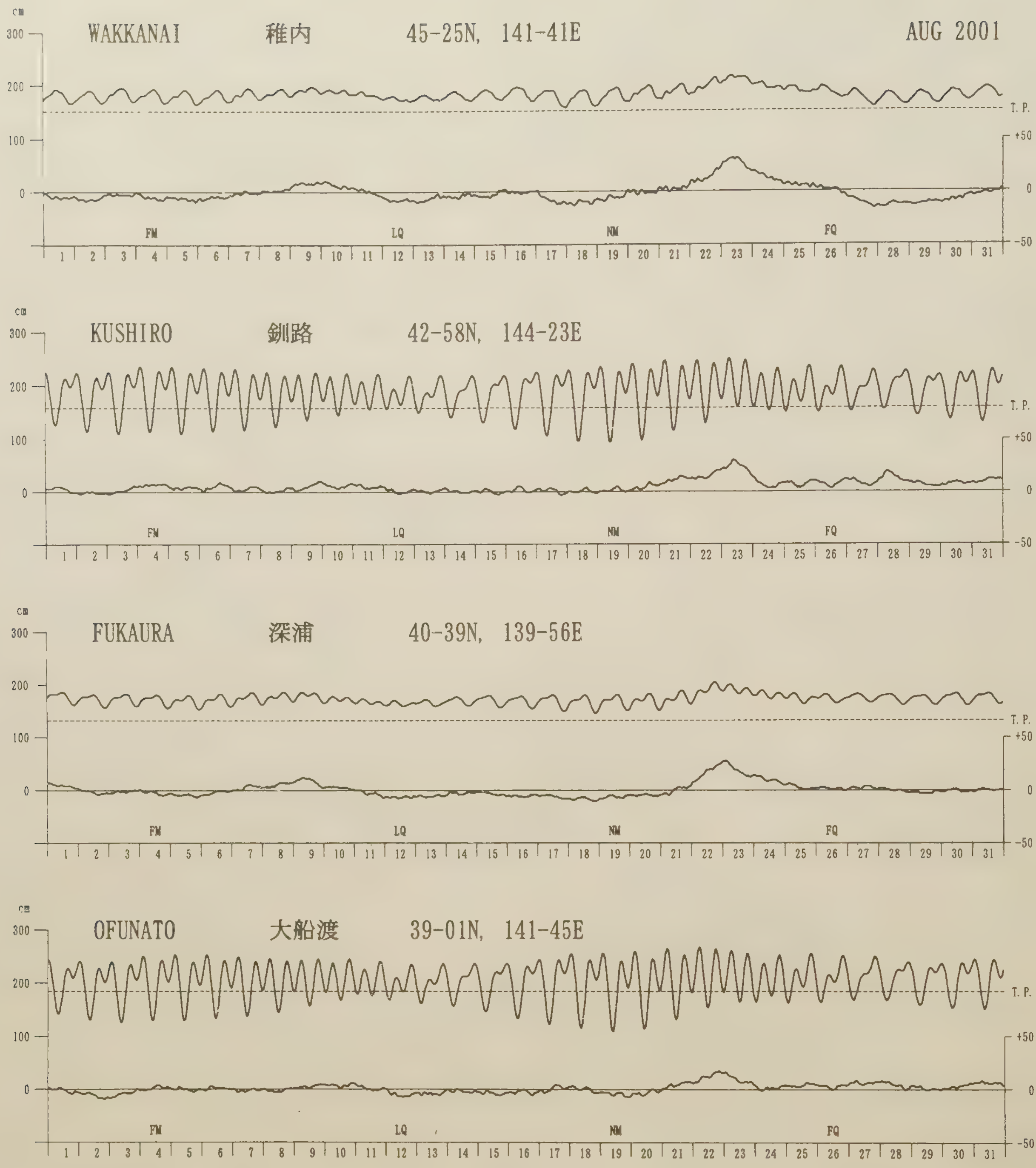






第14図 沿岸水温時系列図

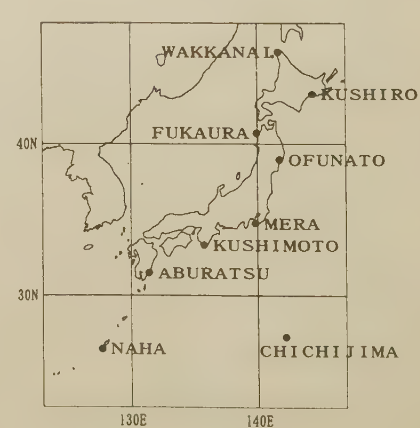
Fig. 14 Time series of hourly coastal water temperatures (°C) measured at 7 coastal stations of the JMA shown in the right panel.
Thin lines show ten-day mean climatology.



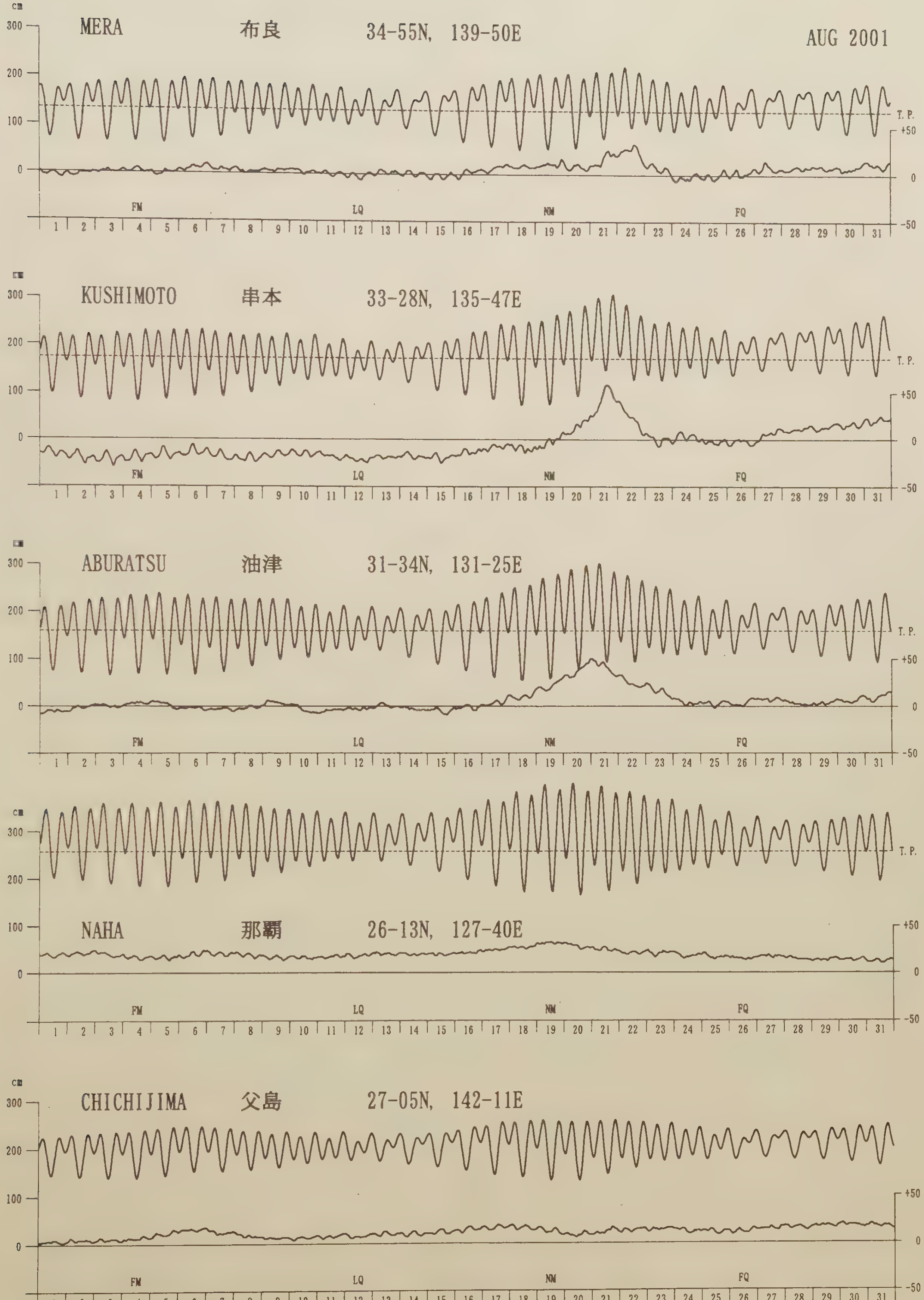
第15図 沿岸潮位時系列図（2001年 8月）

Fig. 15 Time series of hourly sea level observation (upper line) and its anomalies (lower line) at 9 stations of the JMA in the right panel.
Short term variations are removed from raw data.

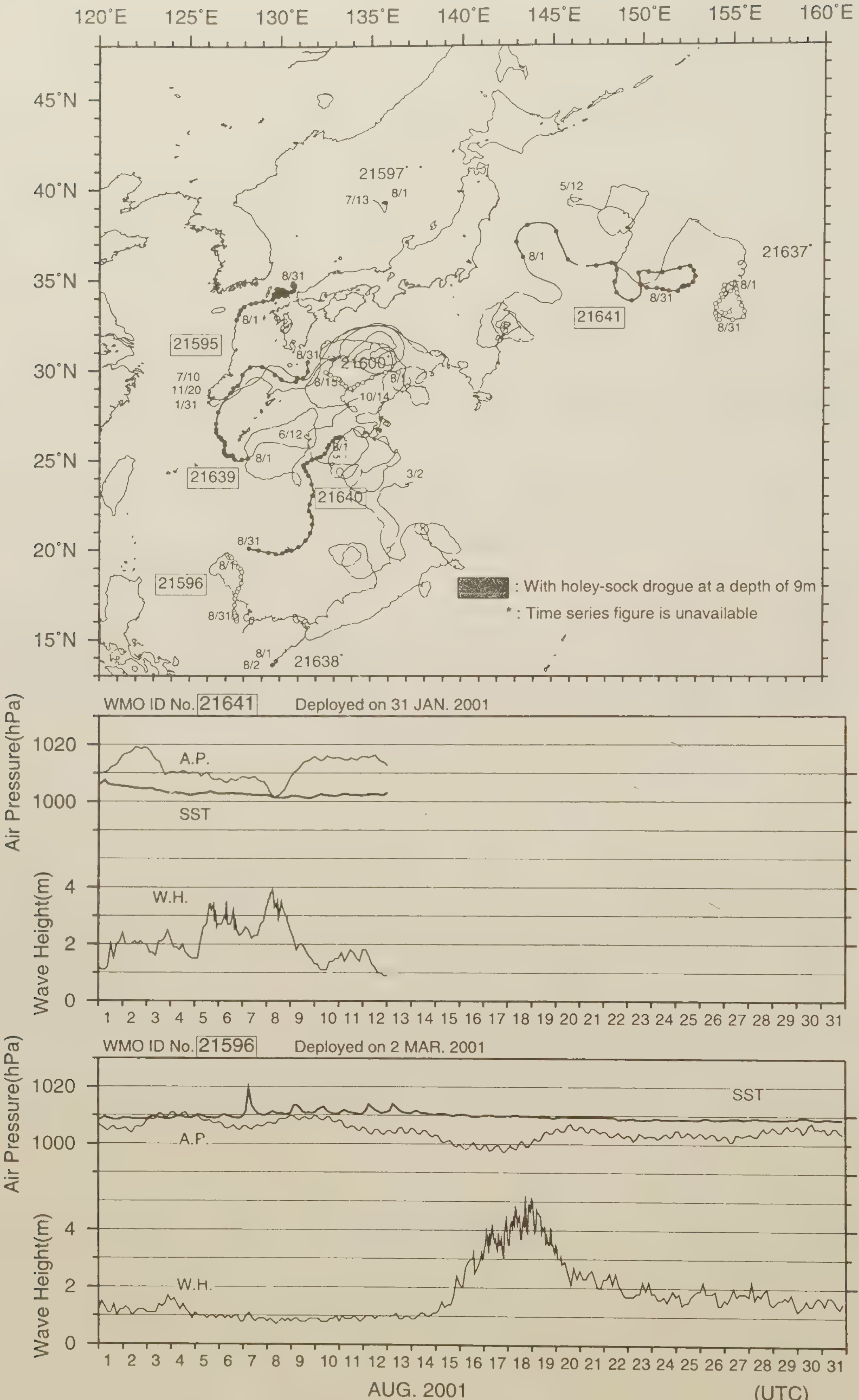
NM: new moon, FQ: first quarter
FM: full moon, LQ: last quarter
T. P. : Mean sea level of Tokyo Bay (Tokyo Peil)



Time series of Sea Level

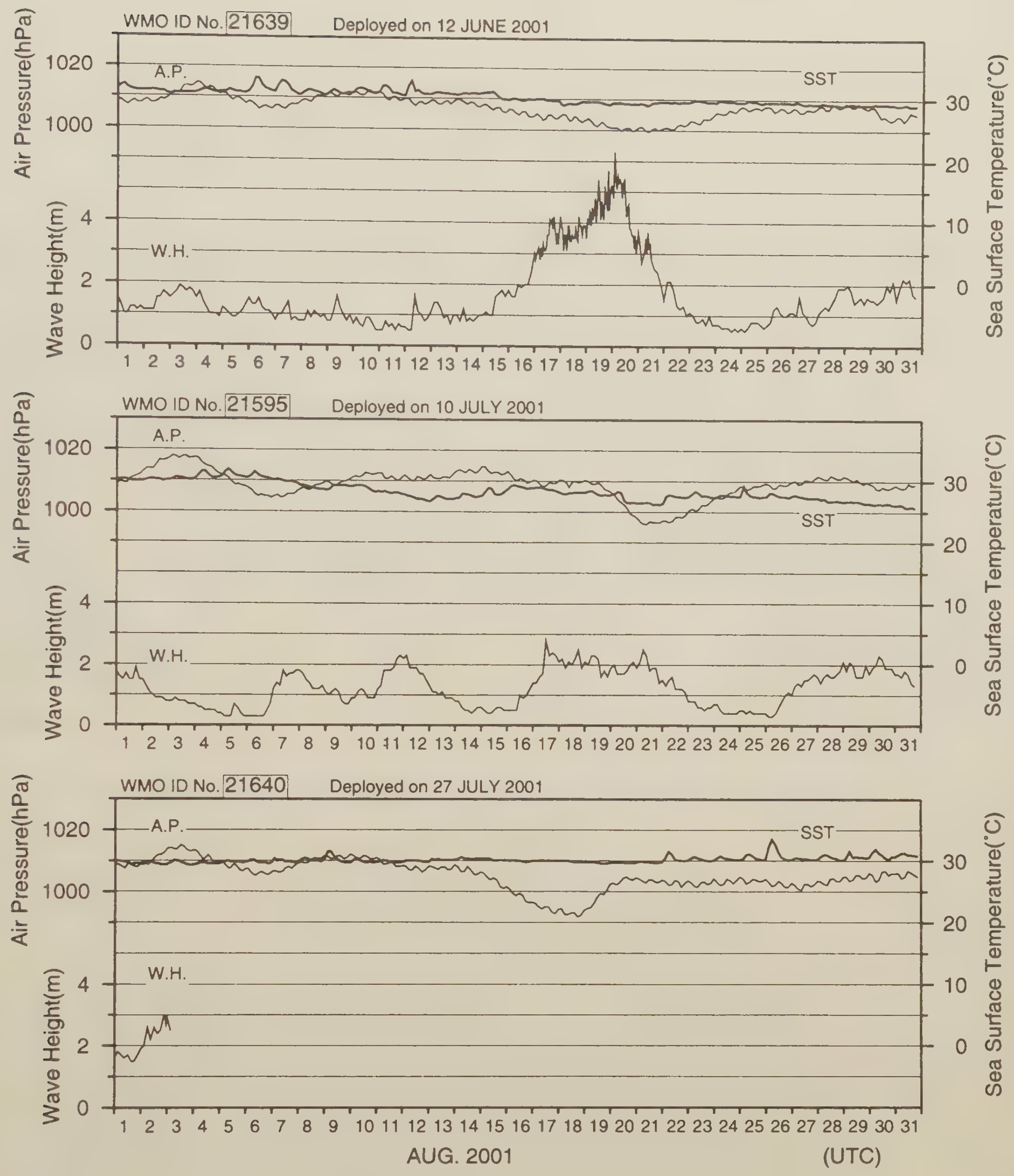


第15図 つづき
Fig. 15 continue



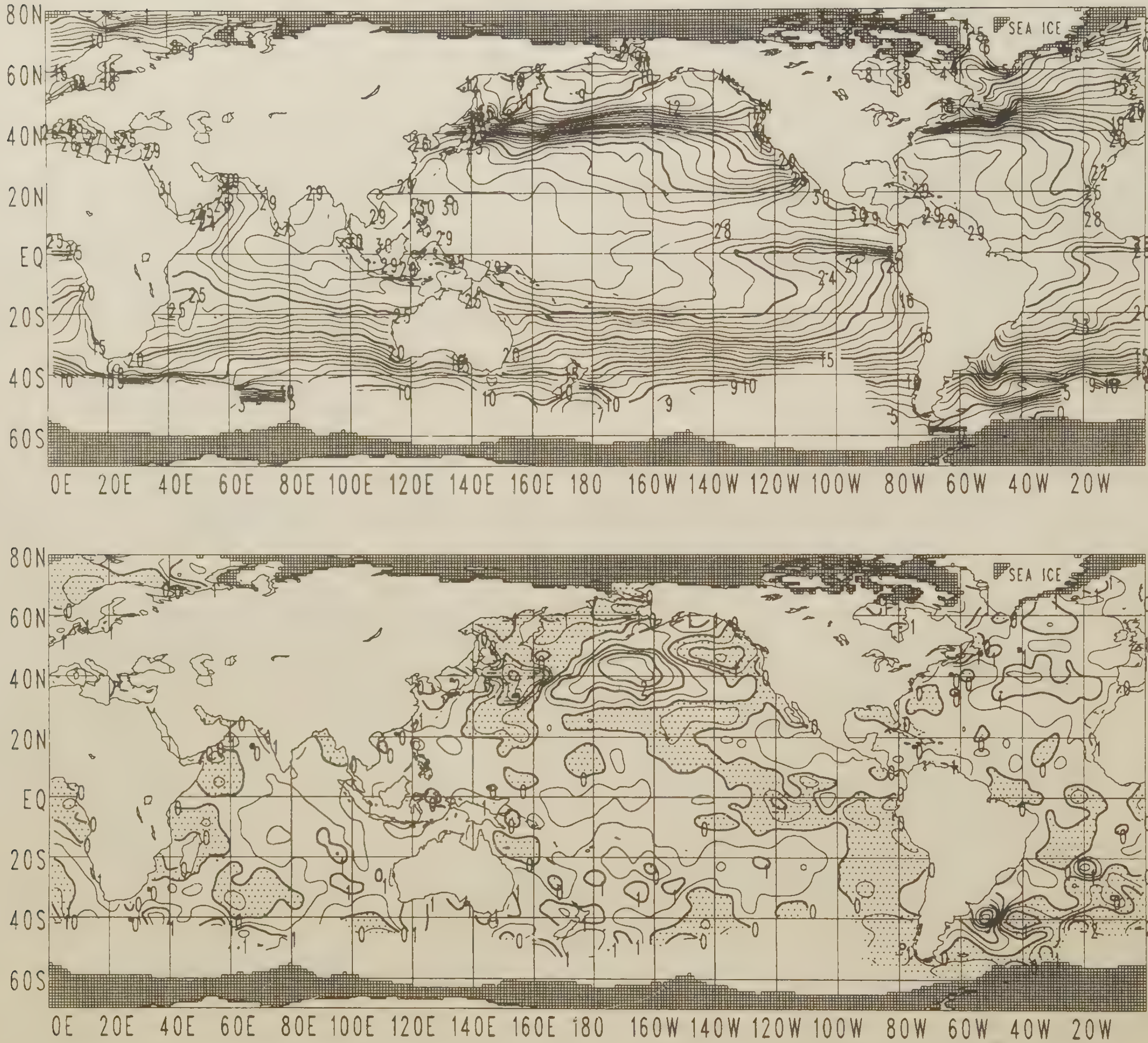
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Fig.16 Time series of JMA drifting buoy observation.
The upper panel shows paths of the buoys. Circles denote the position at 00h UTC everyday.
The lower panel shows time series of observation data.



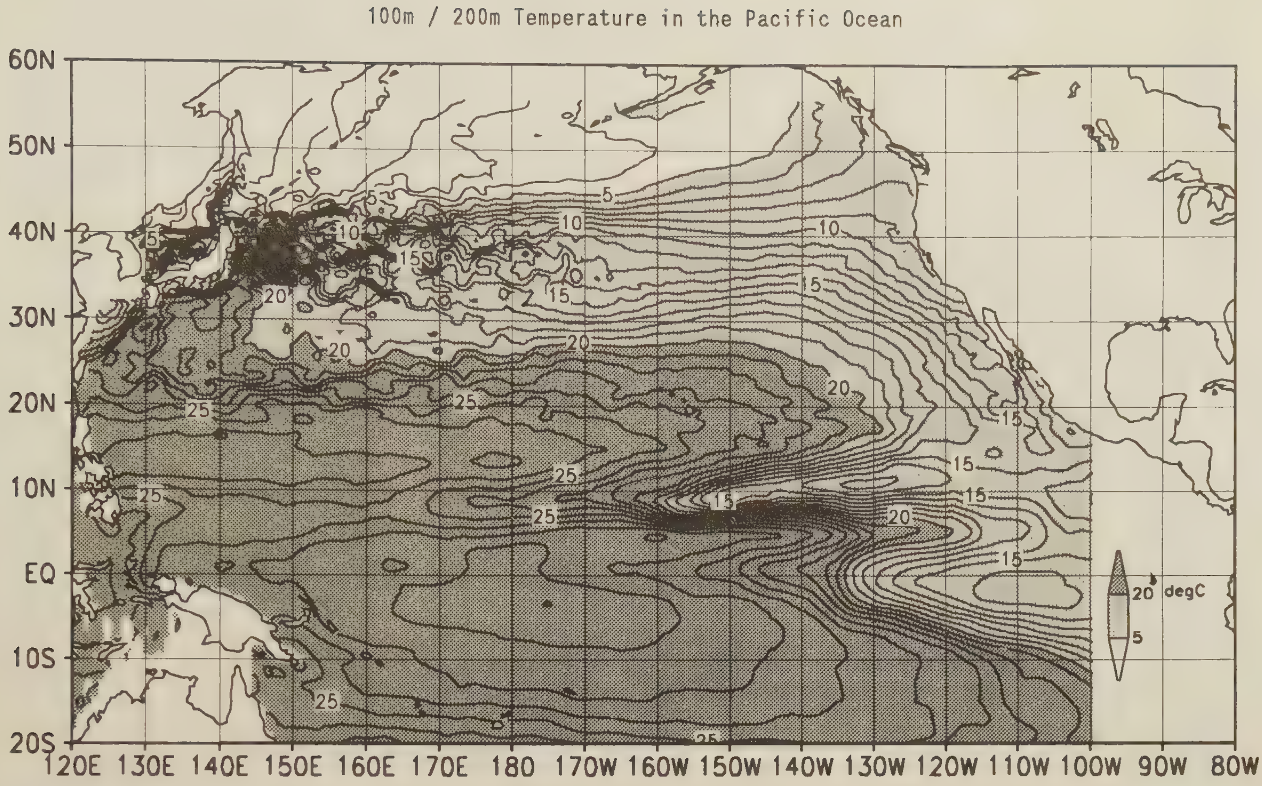
第16図 つづき
Fig.16 continue

SST & Anomalies in the Global Ocean



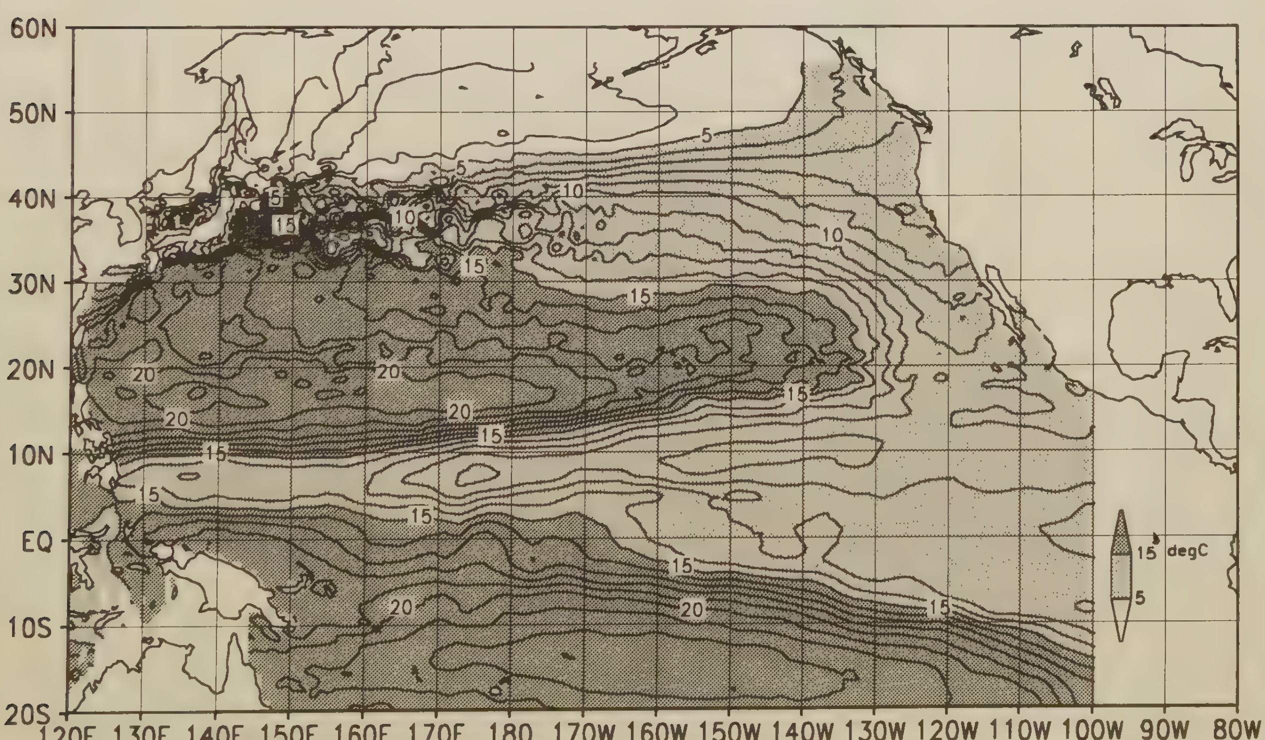
第17図　全球月平均海面水温図（上）及び偏差図（下）（2001年 8月）

Fig. 17 Monthly mean SST over the global ocean (top) and anomalies (bottom) for AUG 2001. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C (top) and additional anomaly contours of ±0.5°C are shown by thin lines. Negative anomalies are spotted. Maximum coverage of sea ice is shaded. Data sources for sea ice are U.S. National Ice Center (polar regions) and JMA (the Sea of Okhotsk).



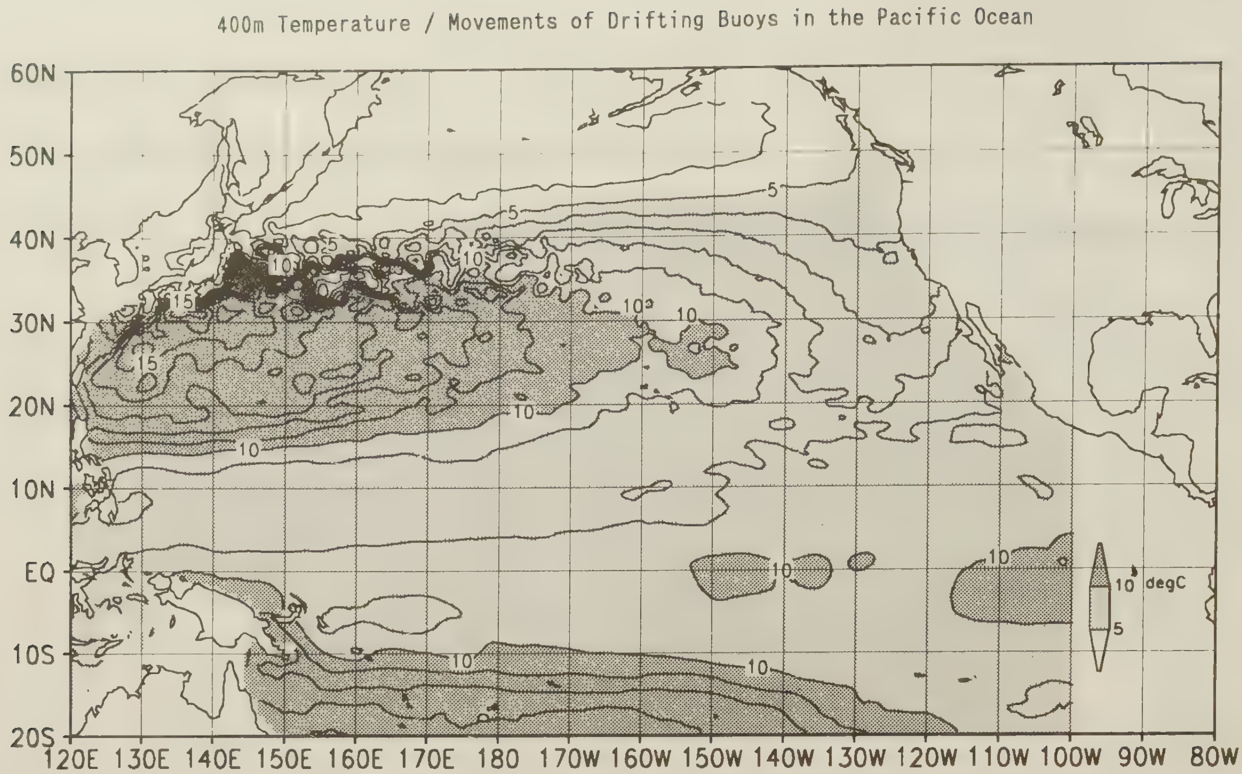
第 18 図　太平洋月平均表層水温図（深さ 100 m）（2001 年 8 月）
（海洋総合解析システムによる）

Fig. 18　Monthly mean subsurface (100 m) temperature in the Pacific Ocean for August 2001. Contour interval is 1 ℃. (calculated by the Ocean Comprehensive Analysis System)



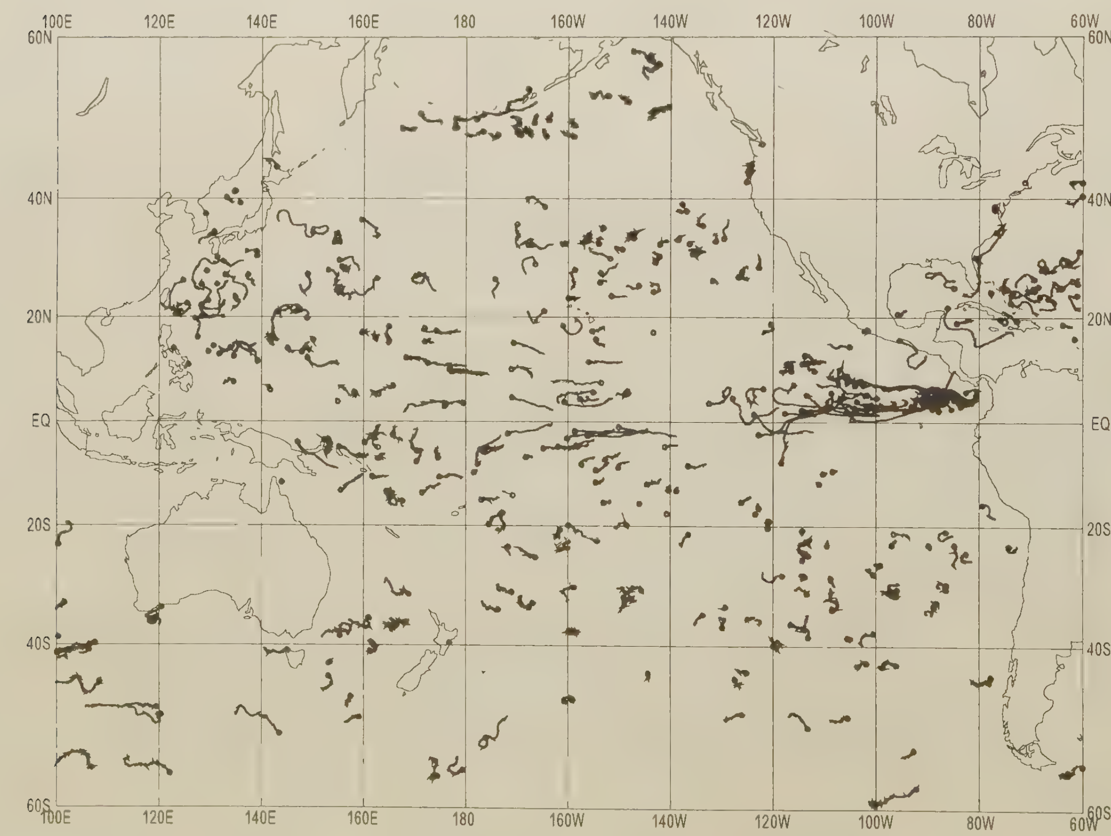
第 19 図　太平洋月平均表層水温図（深さ 200 m）（2001 年 8 月）
（海洋総合解析システムによる）

Fig. 19　Monthly mean subsurface (200 m) temperature in the Pacific Ocean for August 2001. Contour interval is 1 ℃. (calculated by the Ocean Comprehensive Analysis System)



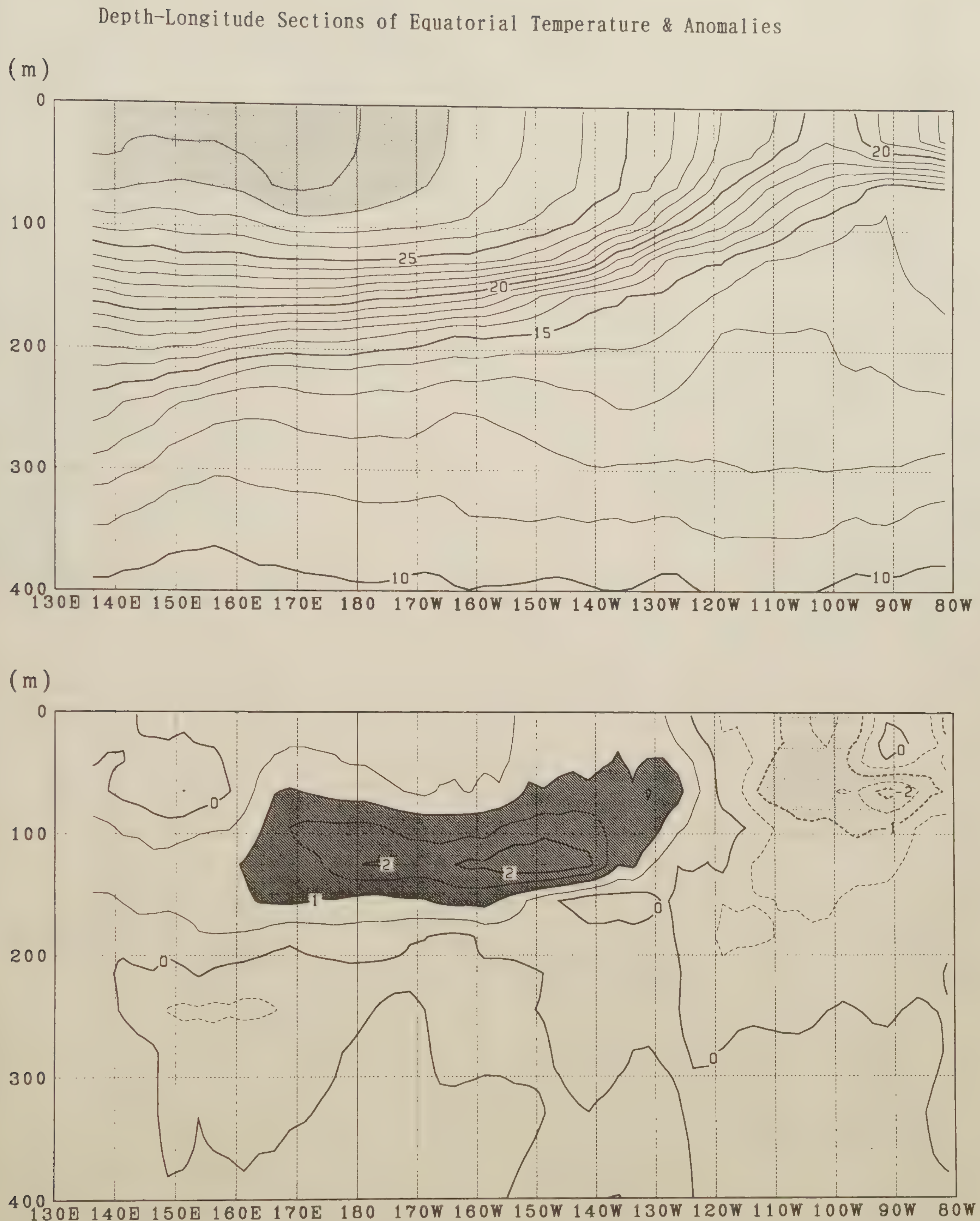
第 20 図　太平洋月平均表層水温図（深さ 400 m）（2001 年 8 月）
（海洋総合解析システムによる）

Fig. 20　Monthly mean subsurface (400 m) temperature in the Pacific Ocean for August 2001. Contour interval is 1 C. (calculated by the Ocean Comprehensive Analysis System)



第 21 図　太平洋ブイ流跡図（2001 年 8 月）

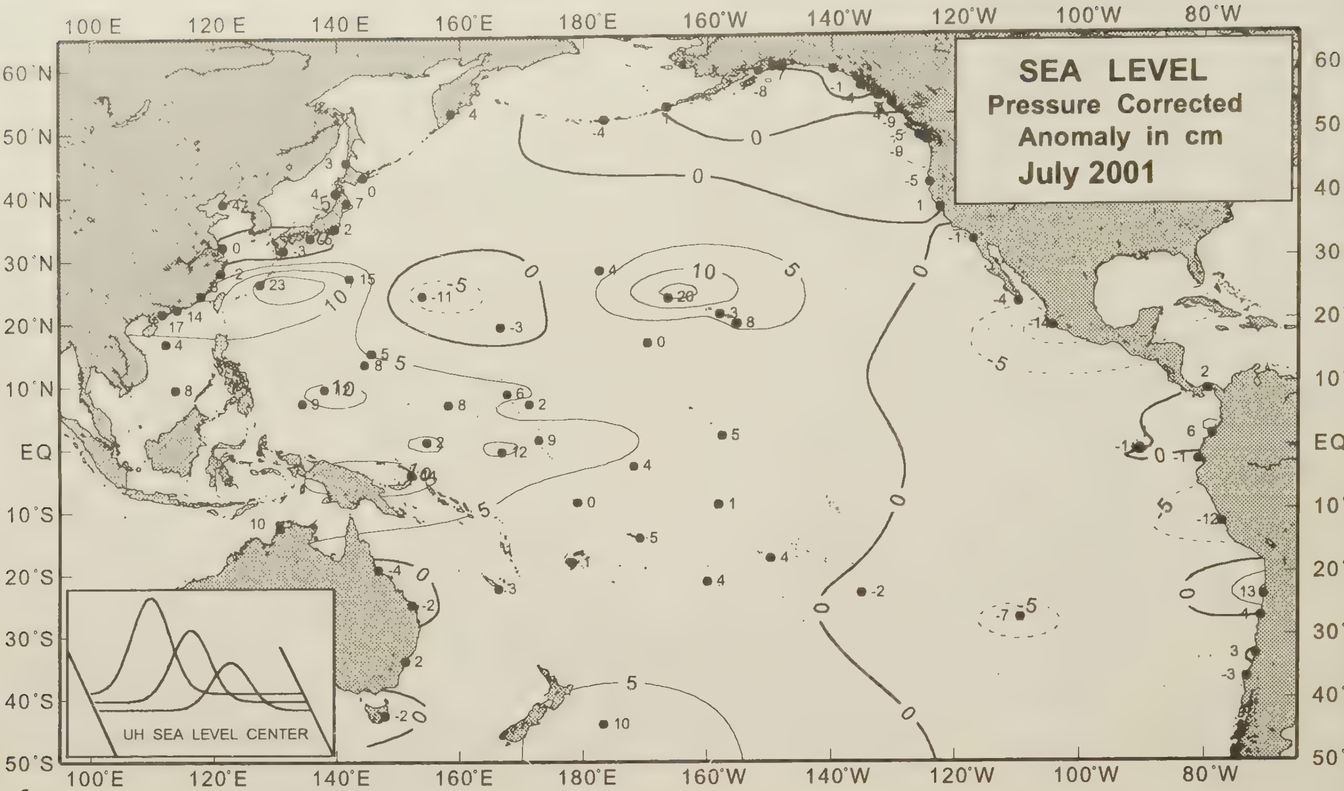
Fig. 21　Trajectories of drifting buoys in the Pacific Ocean during August 2001. Each track is for one buoy. Small circles represent the last positions for the month.



第22図　太平洋赤道に沿う表層水温（上）及び偏差（下）の深度－経度断面図（2001年 8月）

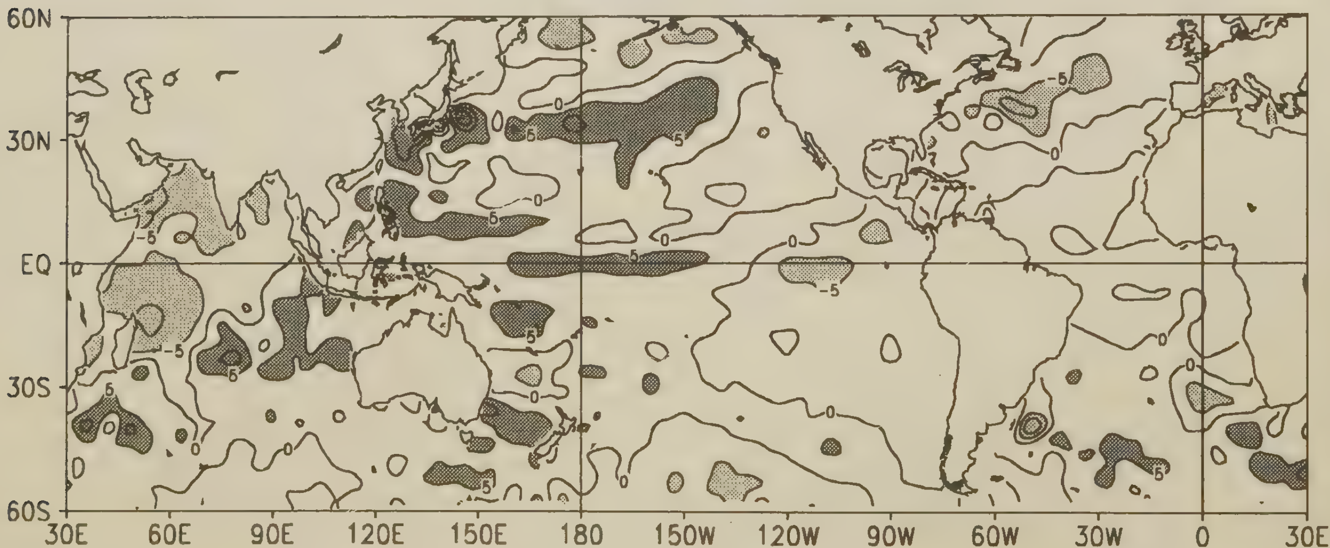
Fig. 22 Depth-longitude sections of temperature (top) and anomalies (bottom) along the equator in the Pacific Ocean for AUG 2001. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1°C (top) and 0.5°C (bottom). Values greater than 28°C in the top panel are shaded. In the bottom panel, values greater than 1°C are shaded and values less than -1°C are spotted. Anomalies are computed from 1987-2000 base period means.

Sea Level Anomalies / Sea Surface Height Anomalies



第 23 図　太平洋月平均海面水位偏差図（2001 年 7 月）

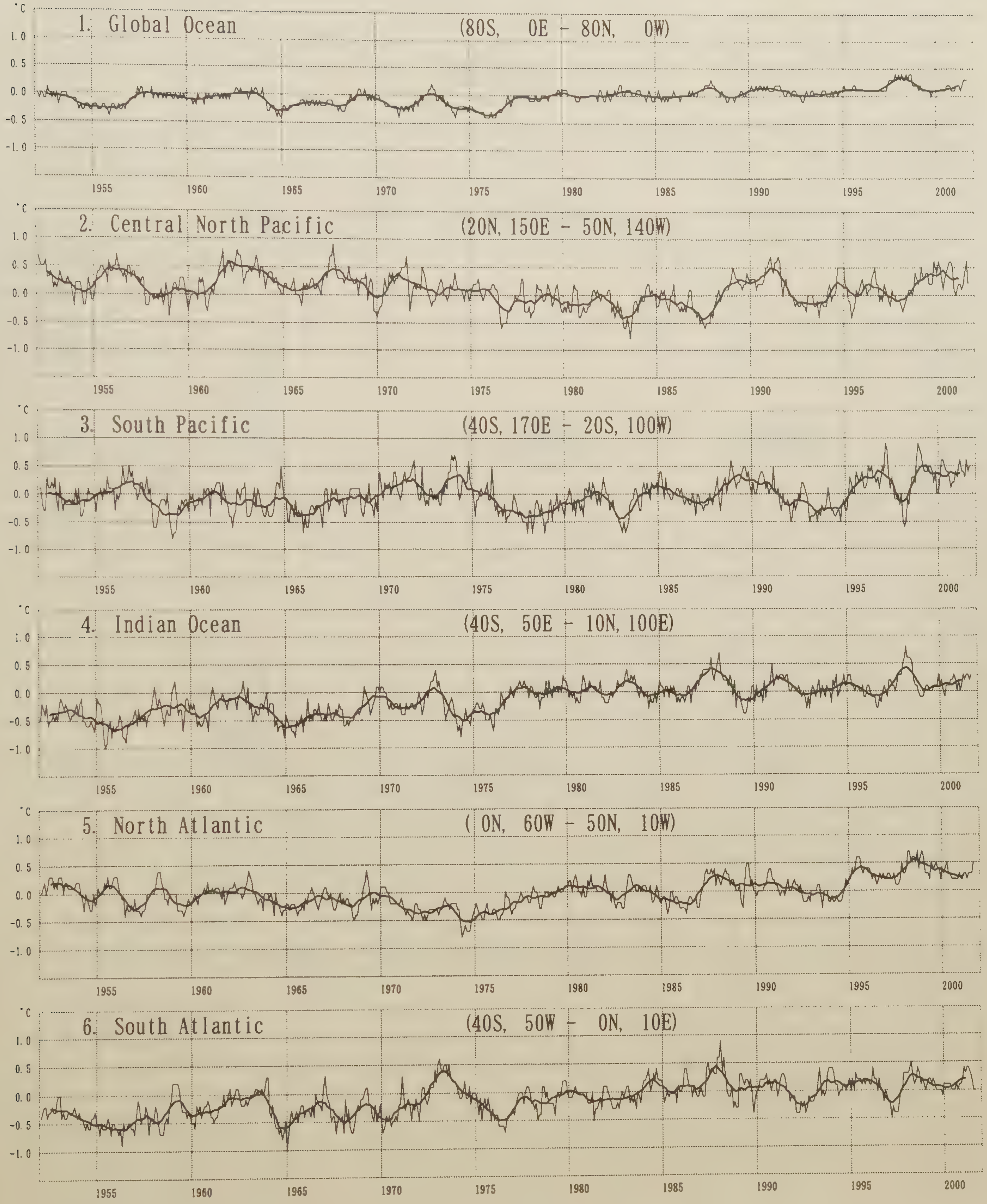
Fig. 23　Monthly sea level anomalies for July 2001 obtained from mean sea level (1975-1995) adjusted for atmospheric pressure. This figure is prepared by the SOC of ISLP-PAC, Department of Oceanography, University of Hawaii.



第 24 図　全球月平均海面高度偏差図（2001 年 7 月）

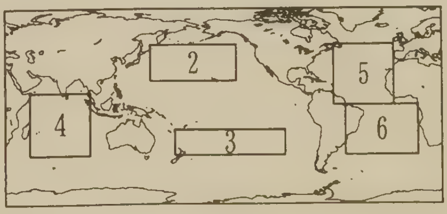
Fig. 24　Monthly sea surface height anomalies in the global ocean derived from the altimeter data of TOPEX/POSEIDON for July 2001. Contour interval is 5 cm. Positive anomalies exceeding +5 cm are shaded and negative anomalies exceeding -5 cm are spotted. Anomalies are computed from 1993-1998 base period means.

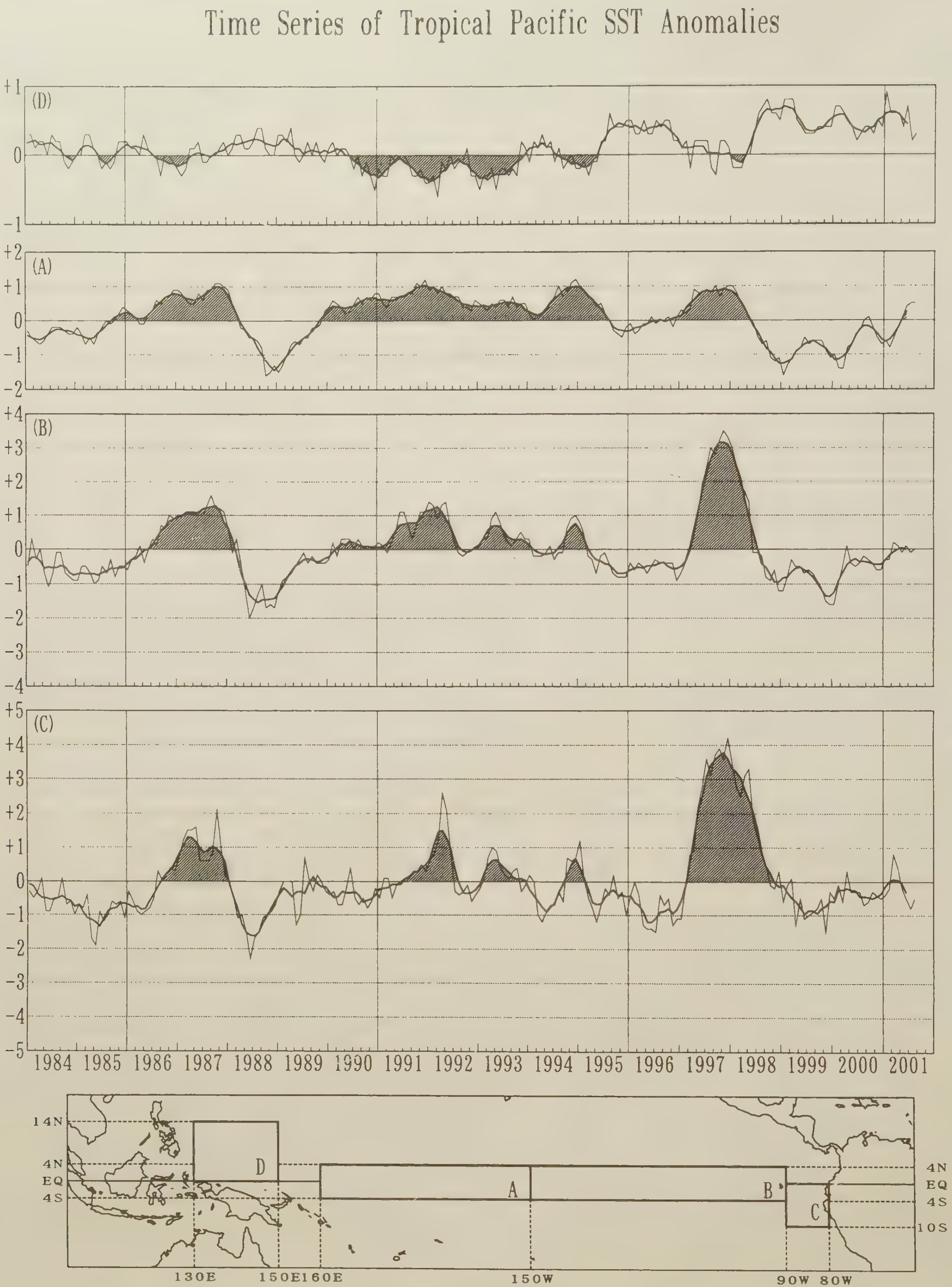
Long-term Variation of Monthly Mean SST Anomalies



第25図 海域平均海面水温偏差の長期変動

Fig. 25 Long-term variations of monthly mean sea surface temperature anomalies (°C) for the areas shown in the right panel. Anomalies are computed from the JMA climatology (1971-2000). Thin lines show the monthly mean and thick lines their 13-month running means.





第26図　太平洋熱帯域の海面水温偏差時系列図

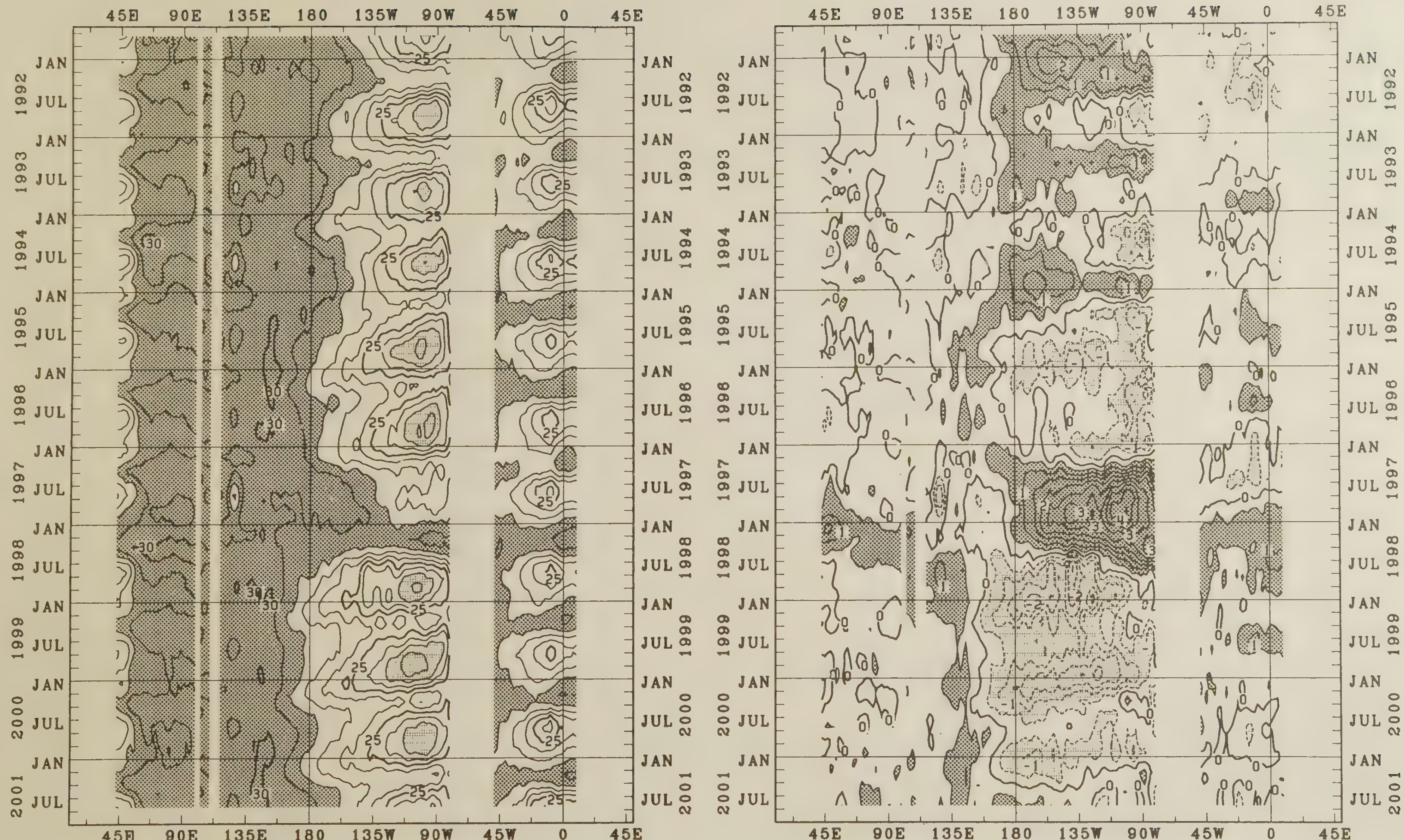
Fig. 26 Time series of monthly mean SST anomalies (°C) in the tropical Pacific Ocean for the areas indicated at the bottom panel. Thin lines show the monthly means and thick lines their 5-month running means. Positive anomalies (A, B, C) and negative anomalies (D) are shaded. Anomalies are computed from the JMA climatology (1971-2000).

Monitoring Indices in the Tropical Pacific

MONTH YEAR	SEA SURFACE TEMPERATURE AND ANOMALY (°C) REGION D 14N-EQ 130E-150E		REGION A 4N-4S 160E-150W		REGION B 4N-4S 150W-90W		REGION C EQ-10S 90W-80W		SOI	SEA LEVEL PRESSURE ANOMALY (hPa) TAHITI 17-33S 149-37W	DARWIN 12-24S 130-52E
JAN 99	29.3	0.8	26.4	-1.6	24.2	-1.2	23.9	-0.6	1.5	2.2	-1.2
FEB 99	29.1	0.8	26.7	-1.3	25.5	-0.8	25.9	-0.1	0.8	1.8	-0.2
MAR 99	29.3	0.8	27.0	-1.1	26.8	-0.3	26.4	0.1	0.9	0.9	-1.2
APR 99	29.3	0.5	27.3	-0.9	26.7	-0.5	24.1	-1.3	1.6	2.0	-0.5
MAY 99	29.7	0.4	27.8	-0.8	26.4	-0.5	23.8	-0.5	0.2	1.5	1.2
JUN 99	29.7	0.3	28.0	-0.5	25.5	-0.7	21.8	-1.1	0.3	1.2	0.7
JUL 99	29.6	0.3	27.8	-0.7	24.8	-0.6	20.9	-1.0	0.4	1.3	0.6
AUG 99	29.5	0.3	27.8	-0.6	24.0	-0.7	20.0	-0.9	0.4	1.8	1.2
SEP 99	29.7	0.4	27.8	-0.6	23.8	-0.9	19.7	-0.8	0.0	0.6	0.6
OCT 99	29.8	0.4	27.8	-0.6	23.6	-1.1	20.4	-0.5	1.1	1.7	-0.0
NOV 99	29.7	0.4	27.5	-0.9	23.2	-1.5	20.3	-1.5	1.2	1.6	-0.4
DEC 99	29.4	0.4	27.1	-1.1	23.4	-1.6	22.6	-0.3	1.6	2.6	-0.3
JAN 00	29.2	0.7	27.0	-1.0	23.8	-1.6	24.0	-0.5	0.5	1.7	0.6
FEB 00	29.0	0.7	26.6	-1.4	25.3	-1.0	25.9	-0.1	1.2	3.1	0.2
MAR 00	29.1	0.6	26.7	-1.4	26.6	-0.5	25.7	-0.6	1.1	2.1	-0.2
APR 00	29.3	0.5	27.4	-0.8	27.3	0.1	25.7	0.3	1.4	1.5	-0.6
MAY 00	29.7	0.4	27.9	-0.7	26.5	-0.4	24.0	-0.3	0.3	1.2	0.8
JUN 00	29.6	0.2	28.1	-0.4	25.7	-0.5	22.6	-0.3	-0.4	0.8	1.2
JUL 00	29.6	0.3	28.2	-0.3	25.0	-0.4	21.6	-0.3	-0.3	-0.1	0.5
AUG 00	29.6	0.4	28.4	0.0	24.5	-0.2	20.2	-0.7	0.7	0.7	-0.5
SEP 00	29.7	0.4	28.5	0.1	24.4	-0.3	19.9	-0.6	1.0	2.0	0.2
OCT 00	29.7	0.3	28.2	-0.2	24.3	-0.4	20.6	-0.3	1.0	0.7	-1.0
NOV 00	29.8	0.5	27.9	-0.5	24.1	-0.6	21.4	-0.4	1.9	1.6	-1.9
DEC 00	29.4	0.4	27.5	-0.7	24.4	-0.6	22.4	-0.5	0.9	-0.3	-2.1
JAN 01	29.4	0.9	27.4	-0.6	25.1	-0.3	24.1	-0.4	0.8	3.0	1.1
FEB 01	28.9	0.6	27.2	-0.8	26.0	-0.3	25.8	-0.2	1.0	-0.0	-2.7
MAR 01	29.1	0.6	27.6	-0.5	27.3	0.2	27.1	0.8	0.8	1.8	0.2
APR 01	29.4	0.6	28.0	-0.2	27.3	0.1	25.8	0.4	0.2	0.4	0.2
MAY 01	29.7	0.4	28.7	0.1	26.8	-0.1	24.1	-0.2	-0.8	0.2	1.3
JUN 01	30.1	0.7	28.9	0.4	26.3	0.1	22.4	-0.5	0.3	0.3	-0.1
JUL 01	29.5	0.2	29.0	0.5	25.3	-0.1	21.1	-0.8	-0.3	0.3	0.8
AUG 01	29.5	0.3	28.9	0.5	24.7	0.0	20.4	-0.5	-0.6	-0.4	0.5

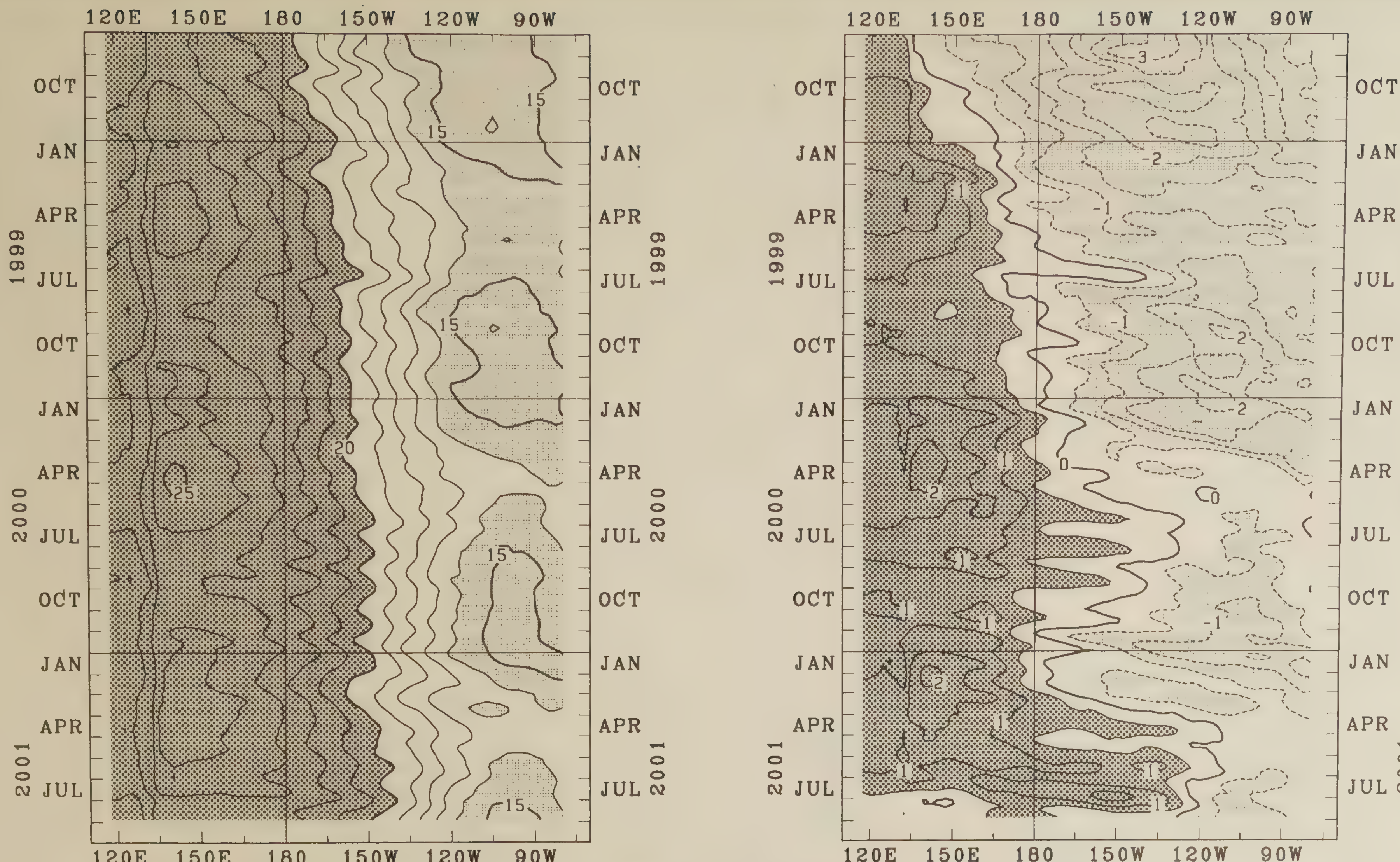
第1表　太平洋熱帯域の大気及び海洋の監視指数

Table 1 Atmospheric and oceanic monitoring indices in the tropical Pacific Ocean



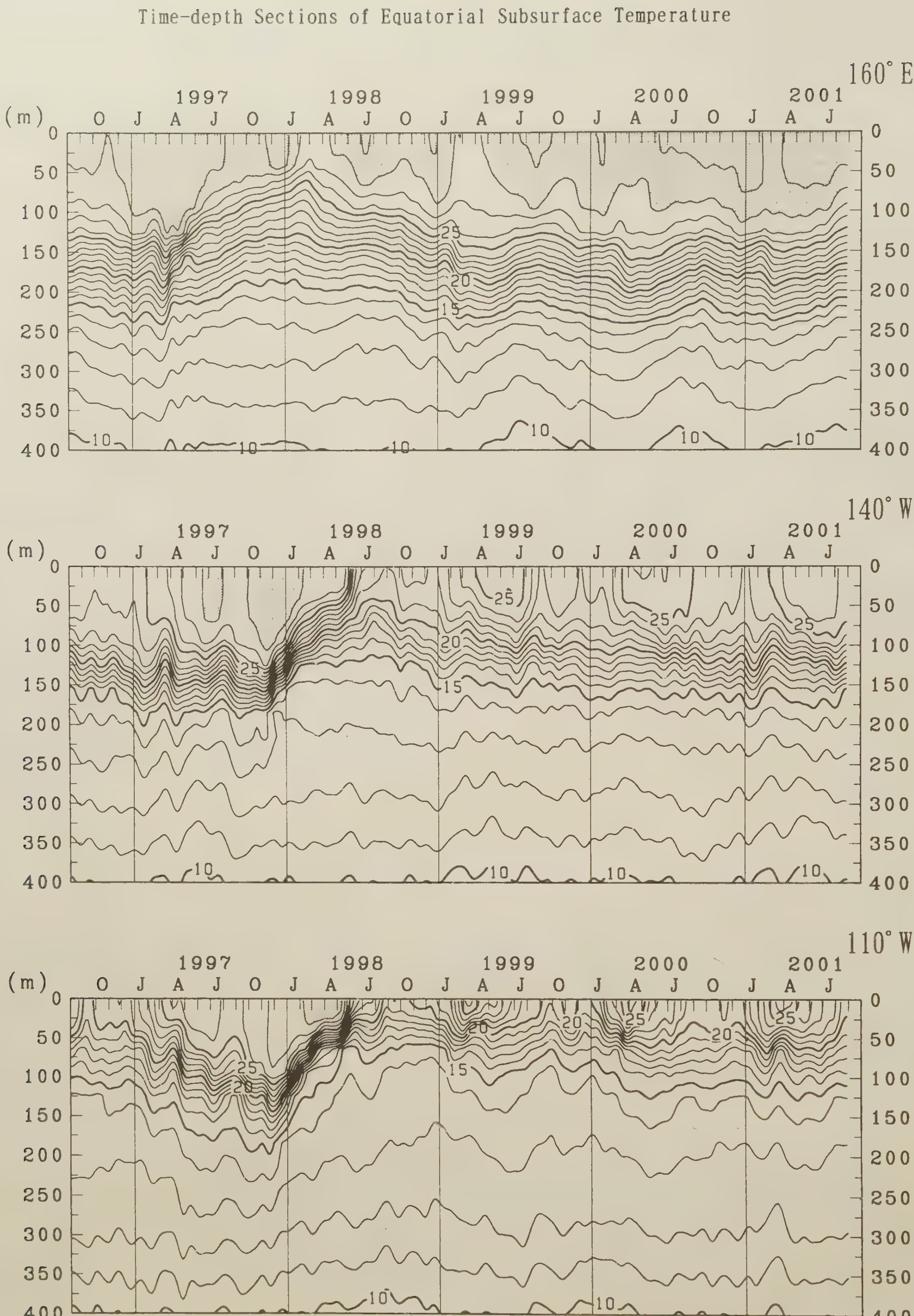
第 27 図　赤道に沿った海面水温（左）および偏差（右）の時間-経度断面図

Fig. 27　Time-longitude sections of SSTs (left) and anomalies (right) along the equator (2 °N-2 °S) in the global ocean. Contour interval is 1 °C (left) and 0.5 °C (right). Values greater than 28 °C are shaded and values less than 23 °C are spotted in the left panel. Dashed contours indicate negative anomalies in the right panel. Anomalies are computed from 1971-2000 base period means.



第28図　太平洋の赤道に沿う海洋表層の貯熱量（左）及び偏差（右）の時間－経度断面図

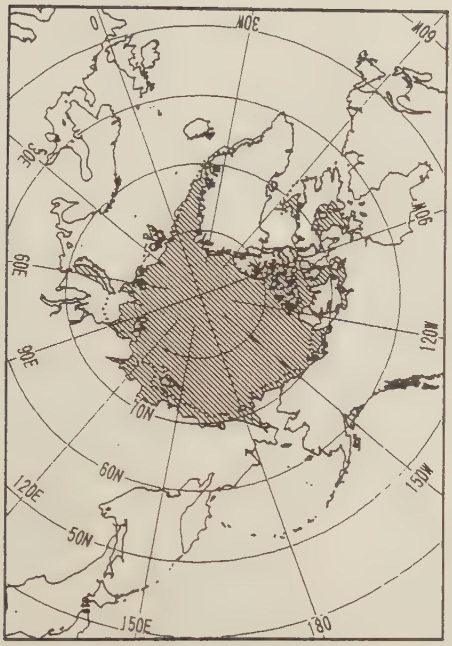
Fig. 28　Time-longitude sections of ocean heat content in the upper 260 m along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1°C (left) and 0.5°C (right). Values greater than 20°C are shaded and values less than 16°C are spotted in the left panel. Dashed contours indicate negative anomalies in the right panel. Anomalies are computed from 1987-2000 base period means.



第29図　太平洋赤道域の表層水温の時間－深度断面図

（上：西部、中：中部、下：東部）

Fig. 29 Time-depth sections of equatorial subsurface temperature for the western Pacific (top, 160°E), the central Pacific (middle, 140°W) and the eastern Pacific (bottom, 110°W). Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1°C. Values greater than 28°C are shaded.

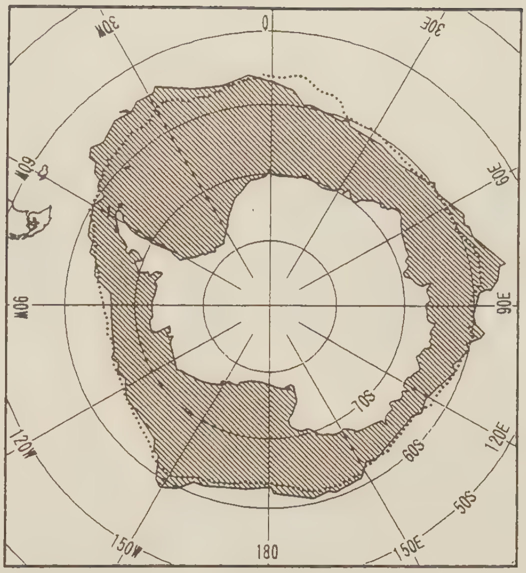


第30-1図　北極域の海氷図（2001年 8月17日）

Fig.30-1 Sea ice chart in the Arctic on 17 Aug. 2001.

The shaded area represents the sea ice extent. The dotted line denotes the mean ice edge averaged for the period from 1972 through 1990.

The data source is the National Ice Center (USA).



第30-2図　南極域の海氷図（2001年 8月15日）

Fig.30-2 Sea ice chart in the Antarctic on 15 Aug. 2001.

The shaded area represents the sea ice extent. The dotted line denotes the mean ice edge averaged for the period from 1973 through 1990.

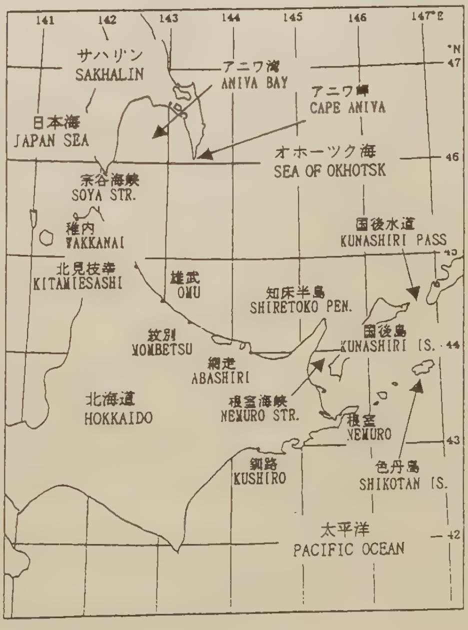
The data source is the National Ice Center (USA).

第30-1表 流氷に関する初終日(2000年12月から2001年5月まで)

Table 30-1. First and Last dates of drift ice at the coastal stations (From December 2000 to May 2001)

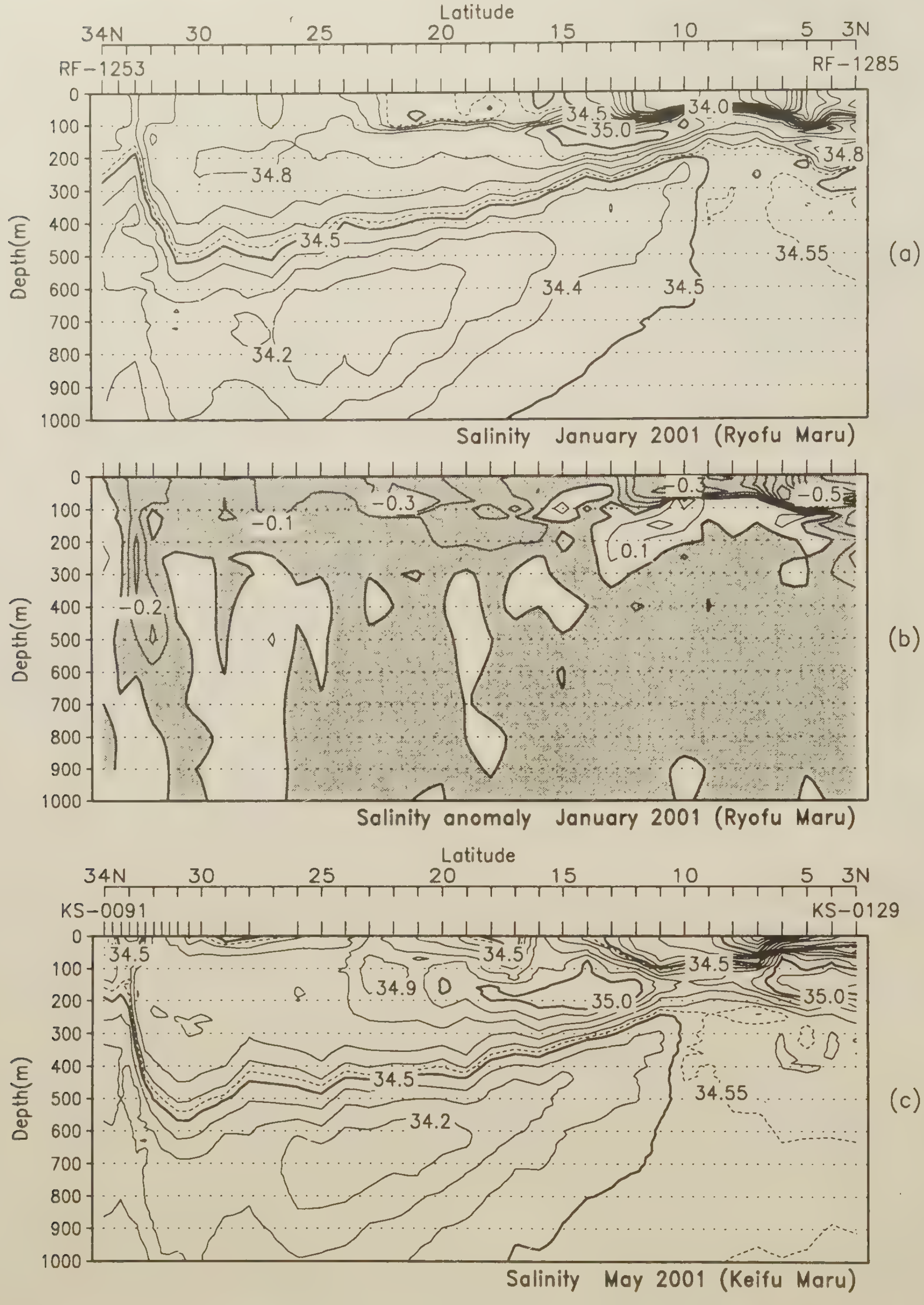
地点 Station	流氷 Drift ice				流氷接岸初日 First date of drift ice on shore	海明け First date of shore lead appearance
	初日 First date	終日 Last date	期間 Period	日数 Days		
稚内 WAKKANAI	1. 8(−33)	3. 15(+ 4)	67(+37)	10(− 1)	1. 9(−36)	*
北見枝幸 KITAMIESASHI	1. 7(−16)	4. 2(+ 1)	86(+17)	55(+10)	1. 8(−23)	3. 16(+ 4)
雄武 OMU	1. 8(−14)	3. 21(−15)	73(− 1)	57(+ 2)	1. 19(−13)	3. 20(+ 6)
紋別 MOMBETSU	1. 8(−14)	3. 29(− 7)	81(+ 7)	69(+11)	1. 16(−20)	3. 21(+ 5)
網走 ABASHIRI	1. 6(−14)	4. 8(− 8)	93(+ 6)	93(+16)	1. 8(−24)	3. 15(− 9)
根室 NEMURO	1. 23(−21)	4. 4(+ 2)	72(+23)	58(+24)	1. 24(−25)	*
釧路 KUSHIRO	2. 2(−27)	3. 14(− 4)	41(+23)	9(+ 7)	—	*

( ) : deviation from normal for the period from 1971 to 2000
− : earlier or less than normal, + : later or more than normal
* : no observations, — : no phenomenon



第30-3図 沿岸海氷観測地点地図

Fig. 30-3 Map of the coastal stations



第 31 図 東経 137 度に沿った鉛直断面図. (a) 塩分 (2001 年 1 月), (b) 塩分平年偏差 (2001 年 1 月, 平年値の統計期間は 1971〜2000 年), (c) 塩分 (2001 年 5 月), (d) 観測位置図.

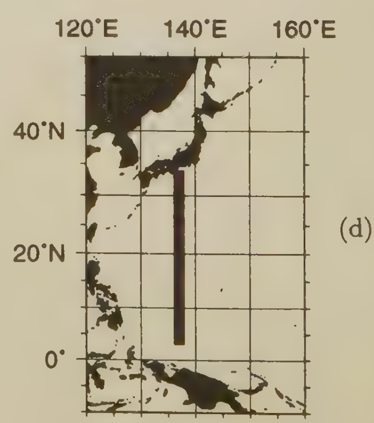
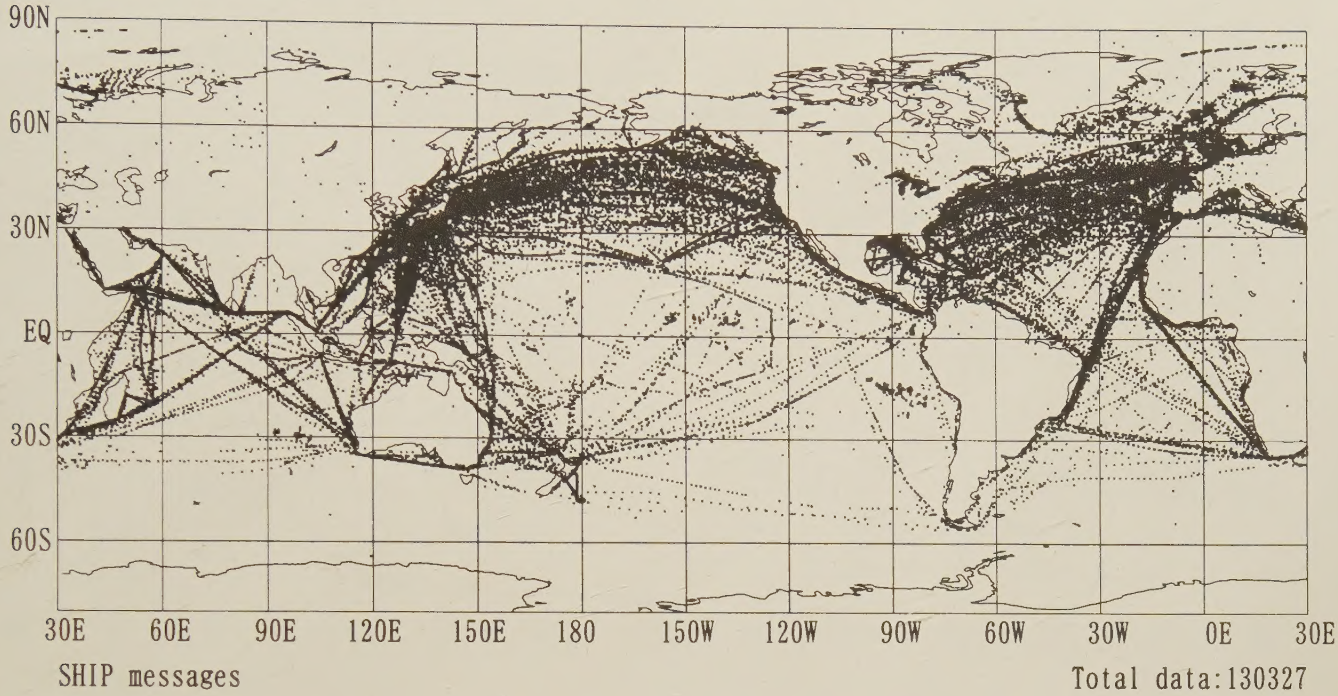
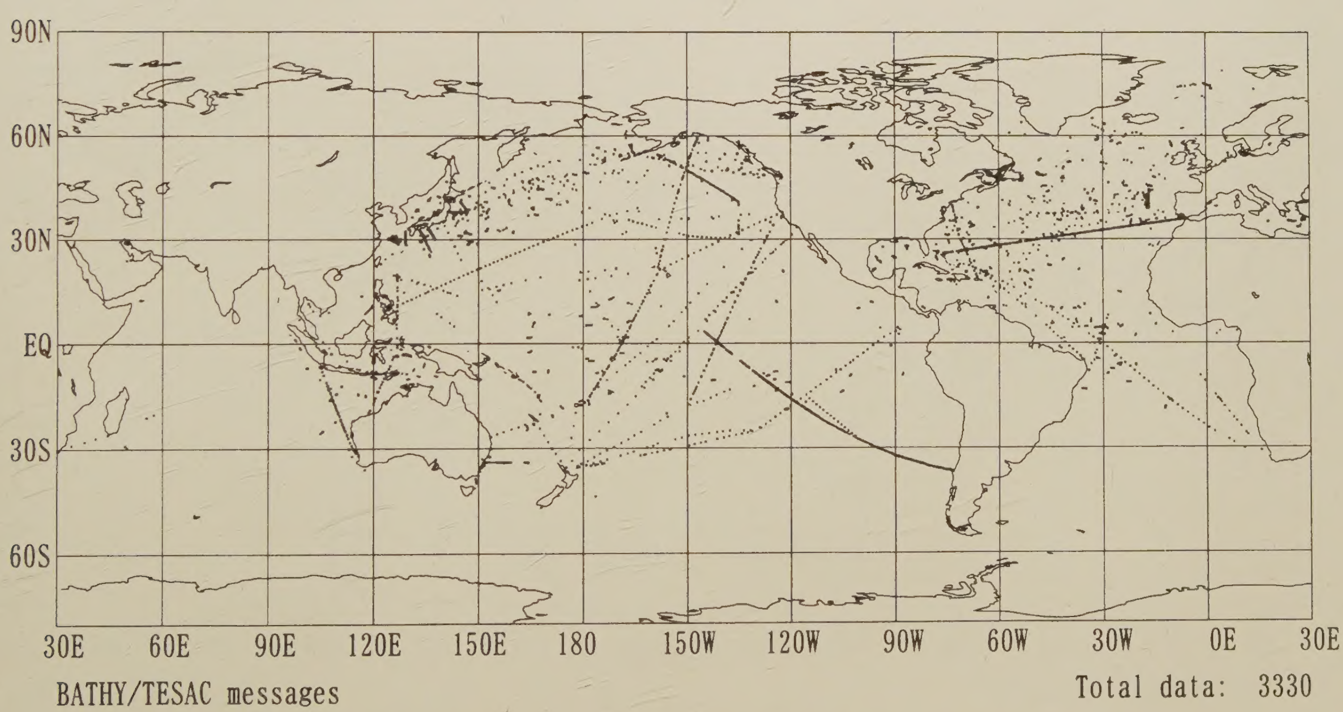


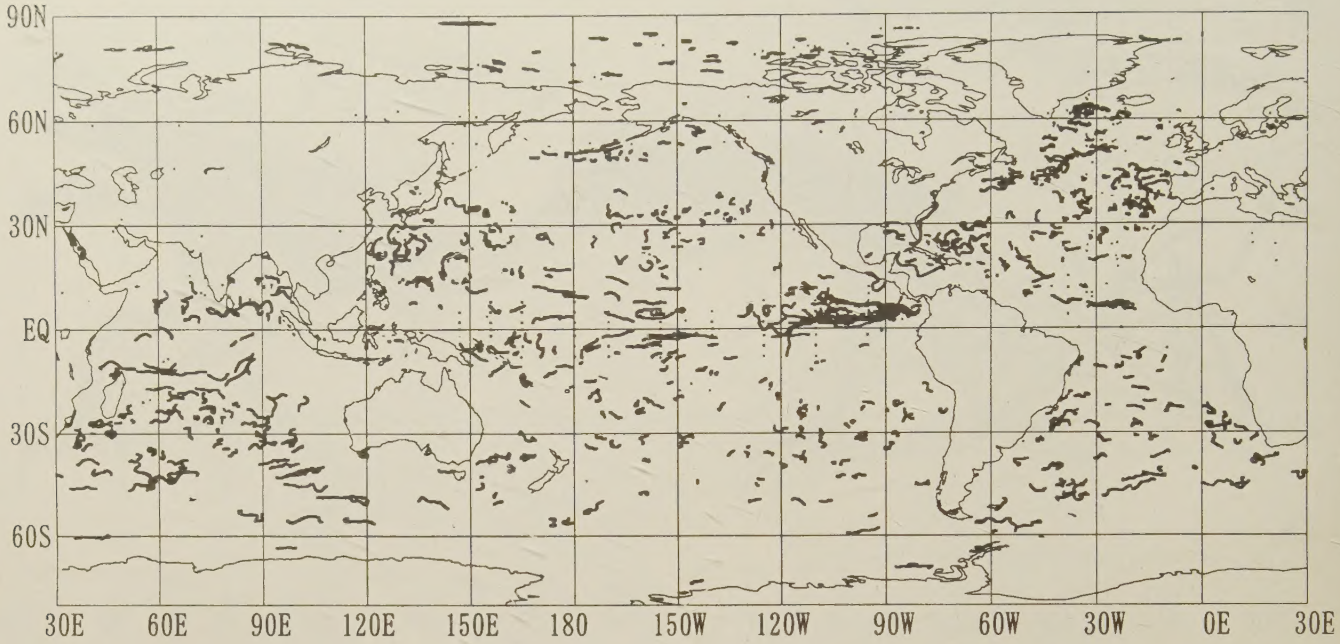
Fig. 31 Vertical sections along 137°E. (a) Salinity observed by R/V Ryofu Maru in January 2001, (b) Salinity anomalies observed by R/V Ryofu Maru in January 2001, (c) Salinity observed by R/V Keifu Maru in May 2001, (d) Location of oceanographic observations along 137°E. Anomalies are computed in the 1971–2000 base period means.



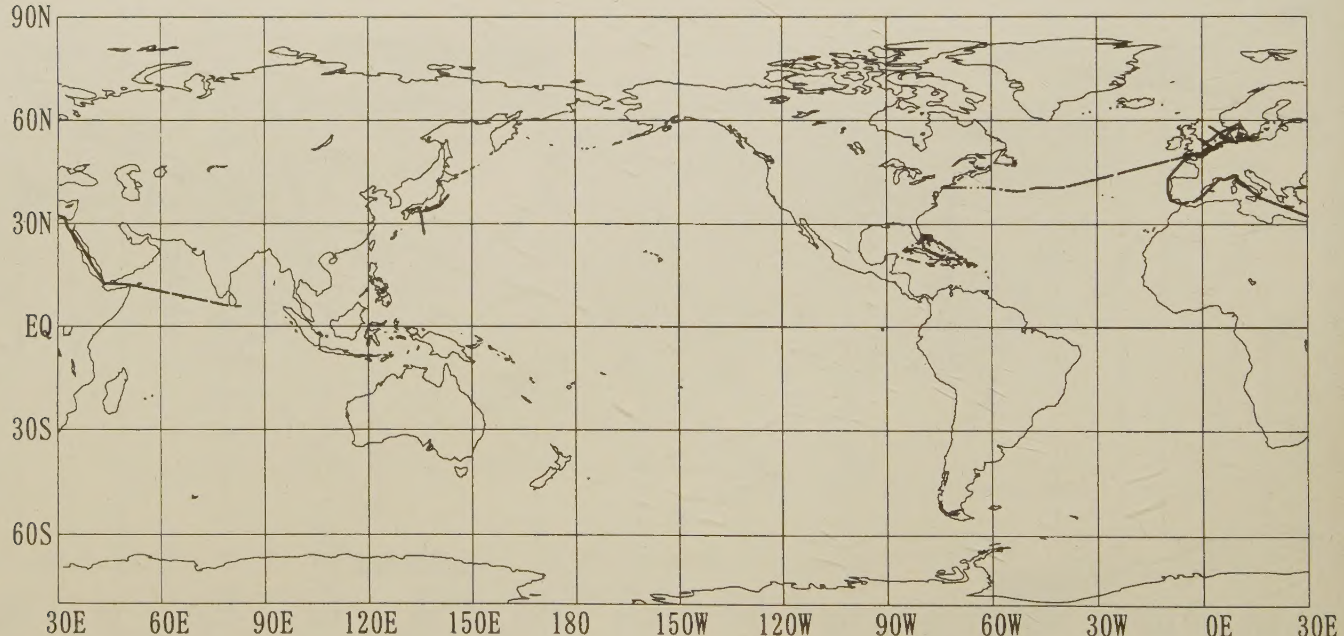


第32-1図　測点分布図(2001年 8月)

Fig. 32-1 Geographical distribution of SHIP messages (SST data, top) and BATHY/TESAC messages (subsurface temperature data, bottom) for AUG 2001.



BUOY messages Total data:409388



TRACKOB messages Total data: 1595

第32-2図　測点分布図(2001年 8月)

Fig. 32-2 Geographical distribution of BUOY messages (buoy drift and SST data, top) and TRACKOB messages (ship drift and SST data, bottom) for AUG 2001.

気象庁海洋月報

Monthly Ocean Report

August 2001 (No. 104)

本月報掲載の2001年8月のプロダクトには、気象庁が観測したデータ及びGTS（全球気象通信網）を通じて入手した国際気象通報式による通報のほか、下記の機関等から提供いただいたデータを使用しています。御礼申し上げます。

防衛庁、水産庁、海上保安庁

水産総合研究センター

海洋科学技術センター、（社）漁業情報サービスセンター

東京大学

水産試験場等（北海道、青森県、岩手県、宮城県、秋田県、山形県、福島県、茨城県、千葉県、東京都、新潟県、福井県、静岡県、愛知県、三重県、京都府、兵庫県、和歌山県、山口県、高知県、佐賀県、長崎県、宮崎県、沖縄県）

（順不同）

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